

REGION 8 INDEX

801.00	SANTA ANA RIVER HYDROLOGIC UNIT
801.10	Lower Santa Ana River HA
1.11	East Coastal Plain HSA
1.12	Santiago HSA
1.13	Santa Ana Narrows HSA
801.20	Middle Santa Ana River HA Split
801.21	Chino HSA Split
481.21	Chino HSA Split
481.22	Harrison HSA
801.23	Claremont Heights HSA Split
481.23	Claremont Heights HSA Split
801.24	Cucamonga HSA
1.25	Temescal HSA
1.26	Arlington HSA
1.27	Riverside HSA
801.30	Lake Matthews HA
1.31	Coldwater HSA
1.32	Bedford HSA
1.33	Cajalco HSA
1.34	Lee Lake HSA
1.35	Terra Colla HSA
801.40	Colton-Rialto HA
1.41	Upper Lytle HSA
1.42	Lower Lytle HSA
1.43	Rialto HSA
1.44	Colton HSA
1.45	Reche HSA
801.50	Upper Santa Ana River HA
1.51	Cajon HSA
1.52	Bunker Hill HSA
1.53	Redlands HSA
1.54	Mentone HSA
1.55	Reservoir HSA
1.56	Crafton HSA
1.57	Santa Ana Canyon HSA
1.58	Mill Creek HSA
1.59	Sycamore HSA
801.60	San Timoteo HA
1.61	Yucaipa HSA
1.62	Beaumont HSA
1.63	Cherry Valley HSA
1.64	Chicken Hill HSA
1.65	Gateway HSA
1.66	Oak Glen HSA
1.67	South Mesa HSA
1.68	Triple Falls Creek HSA
1.69	Noble Creek HSA
801.70	San Bernardino Mountain HA
1.71	Bear Valley HA
1.72	Seven Oaks HSA
1.73	Baldwin HSA

802.00	SAN JACINTO VALLEY HYDROLOGIC UNIT
802.10	Perris HA
2.11	Perris Valley HSA
2.12	Menifee HSA
2.13	Winchester HSA
2.14	Lakeview HSA
2.15	Hemet HSA
802.20	San Jacinto HA
2.21	Gilman Hot Springs HSA
2.22	Hemet Lake HSA
2.23	Bautista HSA
802.30	Elsinore Valley HA
2.31	Elsinore HSA
2.32	Railroad HSA

805.00	LOS ANGELES-SAN GABRIEL RIVER HYDROLOGIC UNIT
805.10	Coastal Plain of Los Angeles County HA Split
845.15	Central HSA Split
845.60	Anaheim HA Split
845.61	Anaheim HSA Split
845.62	La Habra HSA Split
845.63	Yorba Linda HSA Split

NOTE:

1. The names and areas shown on this map are the same as used by the Department of Water Resources (DWR) in their Bulletin 130 Series except as explained below.
2. The numbering system used on this map is an adaptation of the numbering system used in the 130 Series.

3. The boundary between Region 8 and Region 4 follows the boundary between Los Angeles County and Orange or San Bernardino Counties, not the Hydrologic Boundary. The San Bernardino County line splits Hydrologic Unit 1 (Santa Ana River HU) so that Sub-Areas 481.21, 481.22, and 481.23 are legally in Region 4 but drain into Region 8. The Orange County line splits Hydrologic Unit 5 (Los Angeles-San Gabriel River HU) so that Sub-Areas 845.15, 845.61, 845.62 and 845.63 are legally in Region 8 but drain into Region 4. Therefore, a 5 digit number on the map indicates that a regional boundary divides a hydrologic unit, area or subarea. In these cases the second digit is the number of the region from which the hydrologic area has been separated by the regional boundary. All other digits are as described in the legend.
4. The 1986 updated names shown on the map are in accordance with an agreement with DWR and US Geological Survey.

KEY TO REGION

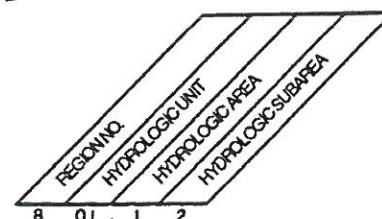


LEGEND

- STREAM
- REGIONAL BOUNDARY
- HYDROLOGIC UNIT BOUNDARY (HU)
- HYDROLOGIC AREA BOUNDARY (HA)
- HYDROLOGIC SUBAREA BOUNDARY (SA)

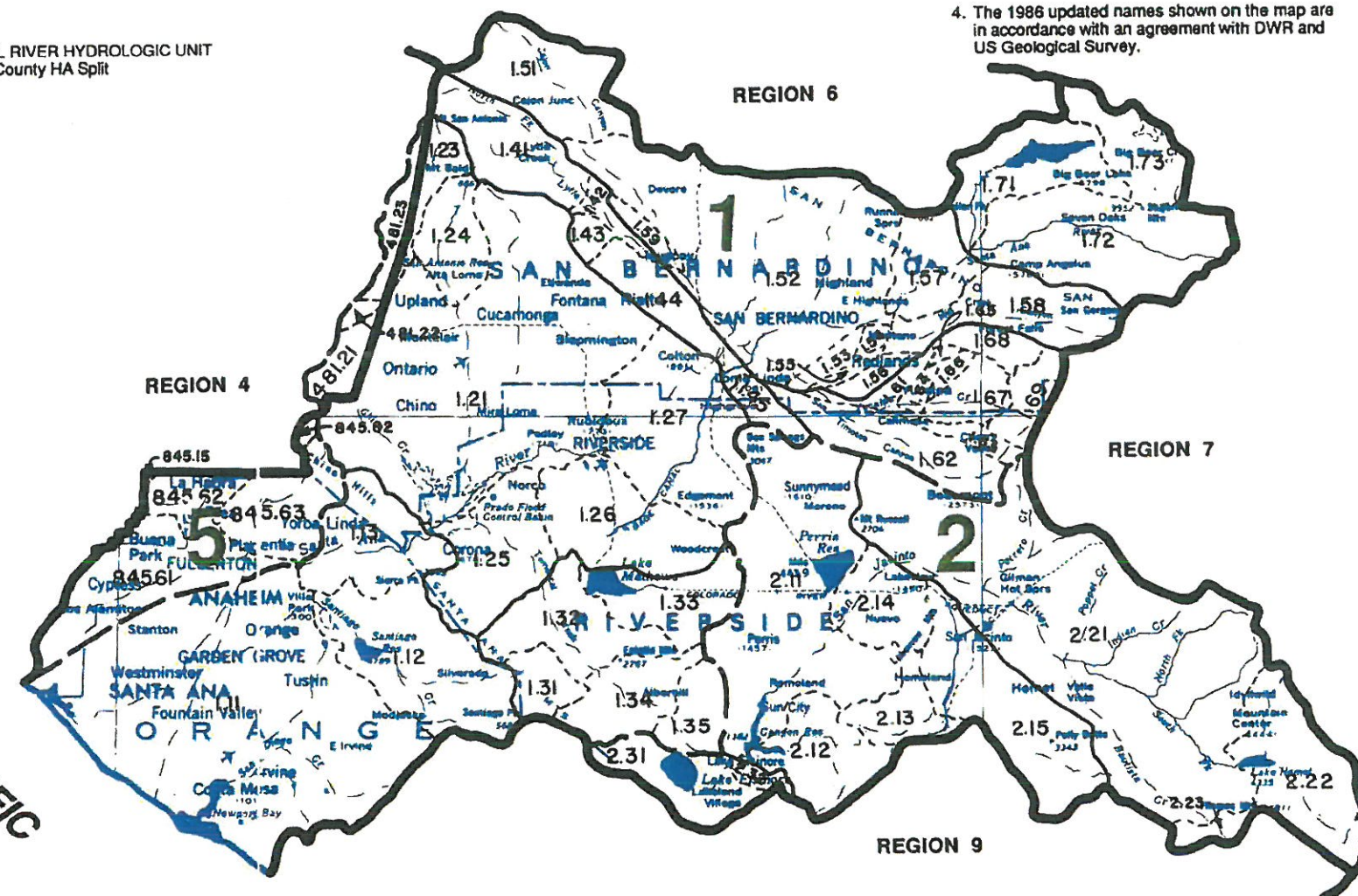
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HYDROLOGIC UNIT NUMBER

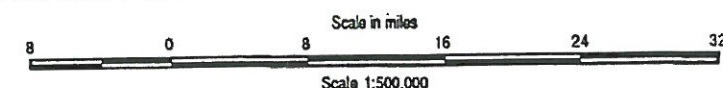


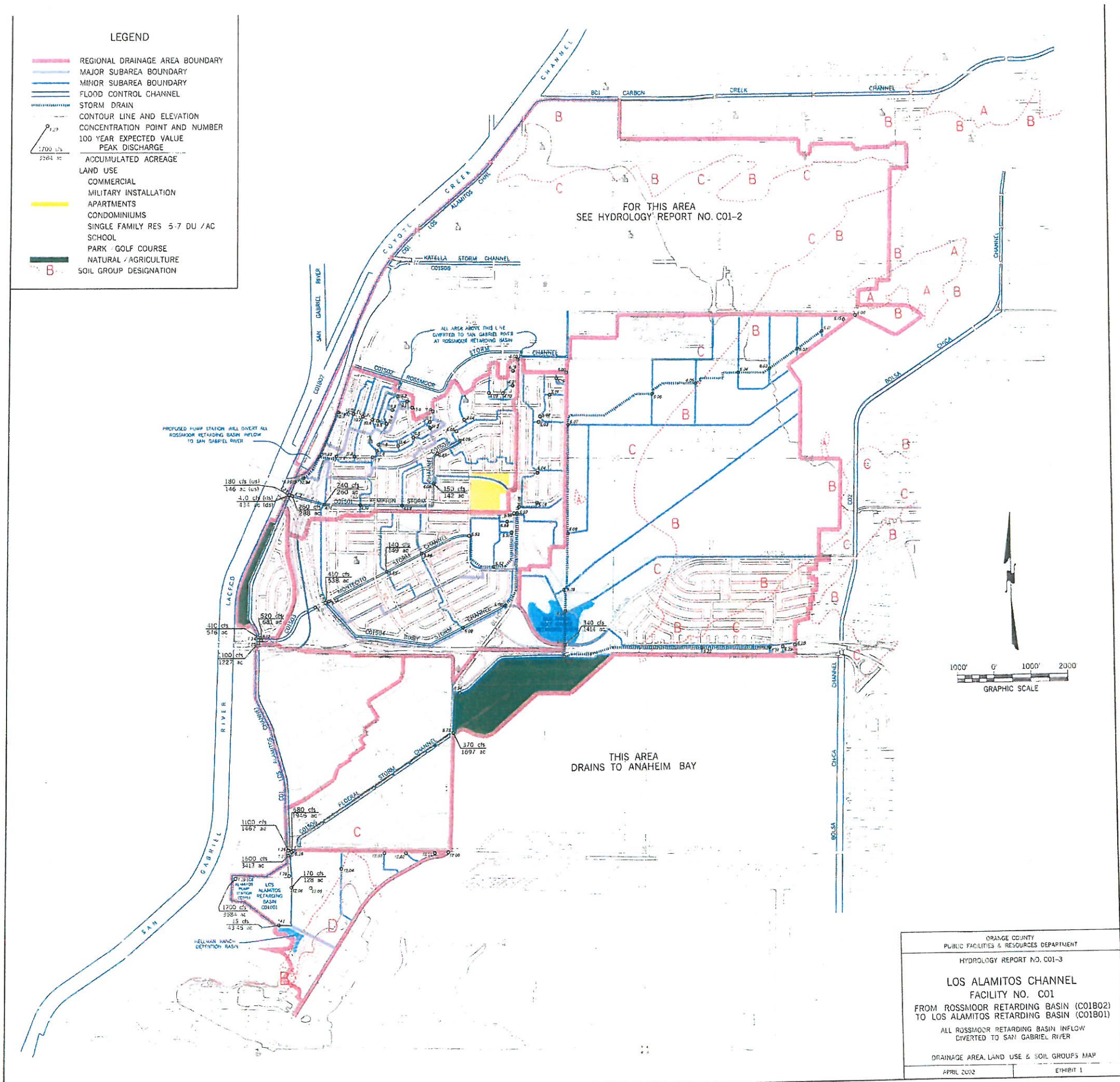
April 1973
Revised: July 1976
Revised: August 1986

State Water Resources Control Board
Surveillance and Monitoring Section
T.E. Lavenda, P.E. *T.E. Lavenda*



State of California
REGIONAL WATER QUALITY CONTROL BOARD
Santa Ana Region (8)
SANTA ANA HYDROLOGIC BASIN PLANNING AREA (SA)





LEGEND

- REGIONAL DRAINAGE AREA BOUNDARY
- MAJOR SUBAREA BOUNDARY
- MINOR SUBAREA BOUNDARY
- FLOOD CONTROL CHANNEL
- STORM DRAIN
- CONTOUR LINE AND ELEVATION
- CONCENTRATION POINT AND NUMBER
- 100 YEAR EXPECTED VALUE PEAK DISCHARGE
- ACCUMULATED ACREAGE
- LAND USE
 - COMMERCIAL
 - MILITARY INSTALLATION
 - APARTMENTS
 - CONDOMINIUMS
 - SINGLE FAMILY RES 5-7 DU / AC
 - SCHOOL
 - PARK GOLF COURSE
 - NATURAL / AGRICULTURE
- SOIL GROUP DESIGNATION

FOR THIS AREA
SEE HYDROLOGY REPORT NO. C01-2

THIS AREA
DRAINS TO ANAHEIM BAY



ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT
HYDROLOGY REPORT NO. C01-3
LOS ALAMITOS CHANNEL
FACILITY NO. C01
FROM ROSSMOOR RETARDING BASIN (C01B02)
TO LOS ALAMITOS RETARDING BASIN (C01B01)
ALL ROSSMOOR RETARDING BASIN INFLOW
DIVERTED TO SAN GABRIEL RIVER
DRAINAGE AREA, LAND USE & SOIL GROUPS MAP
APRIL 2002 EXHIBIT 1

BIXBY STORM CHANNEL
MONTECITO STORM CHANNEL
FEDERAL STORM CHANNEL

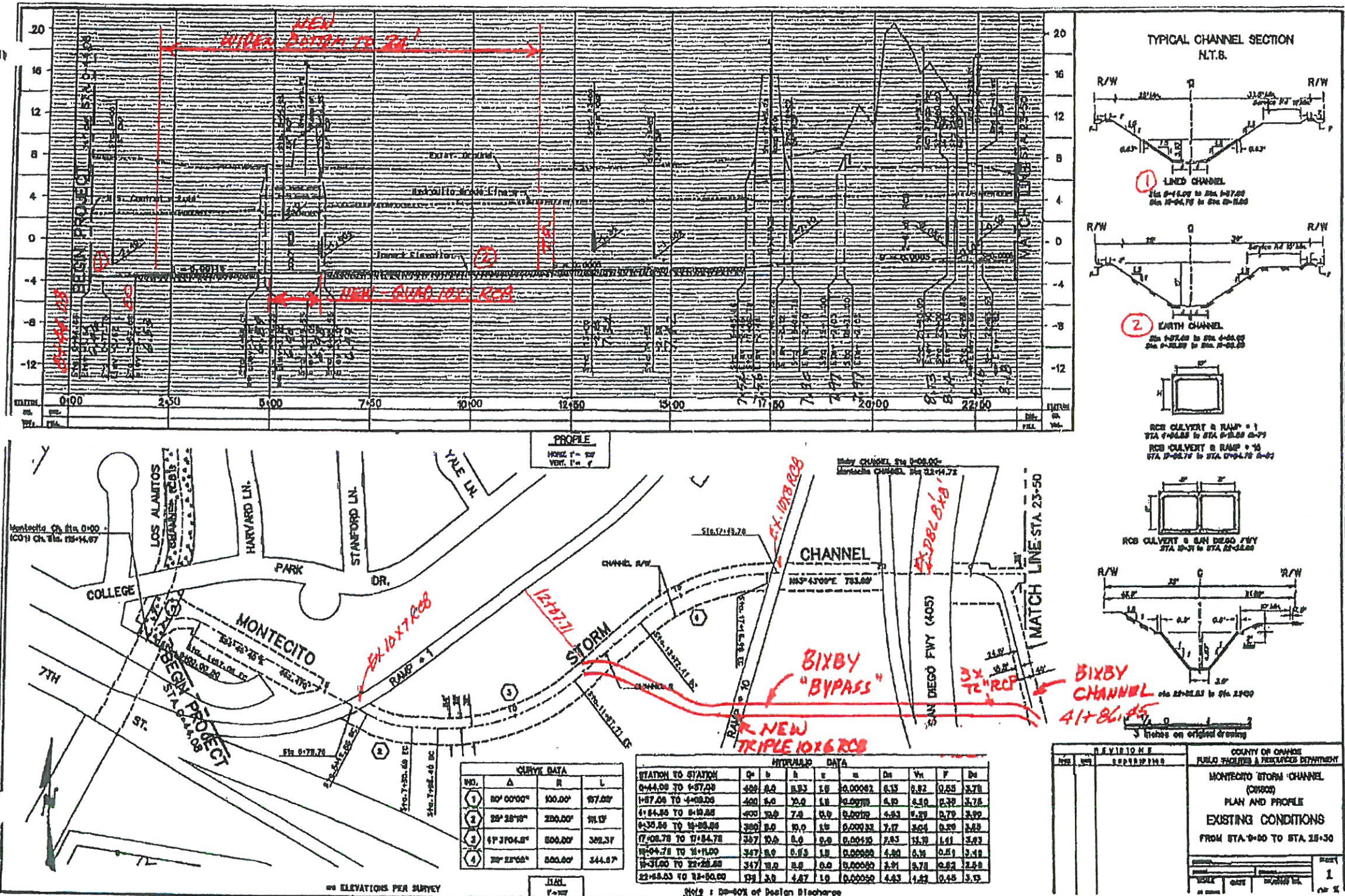
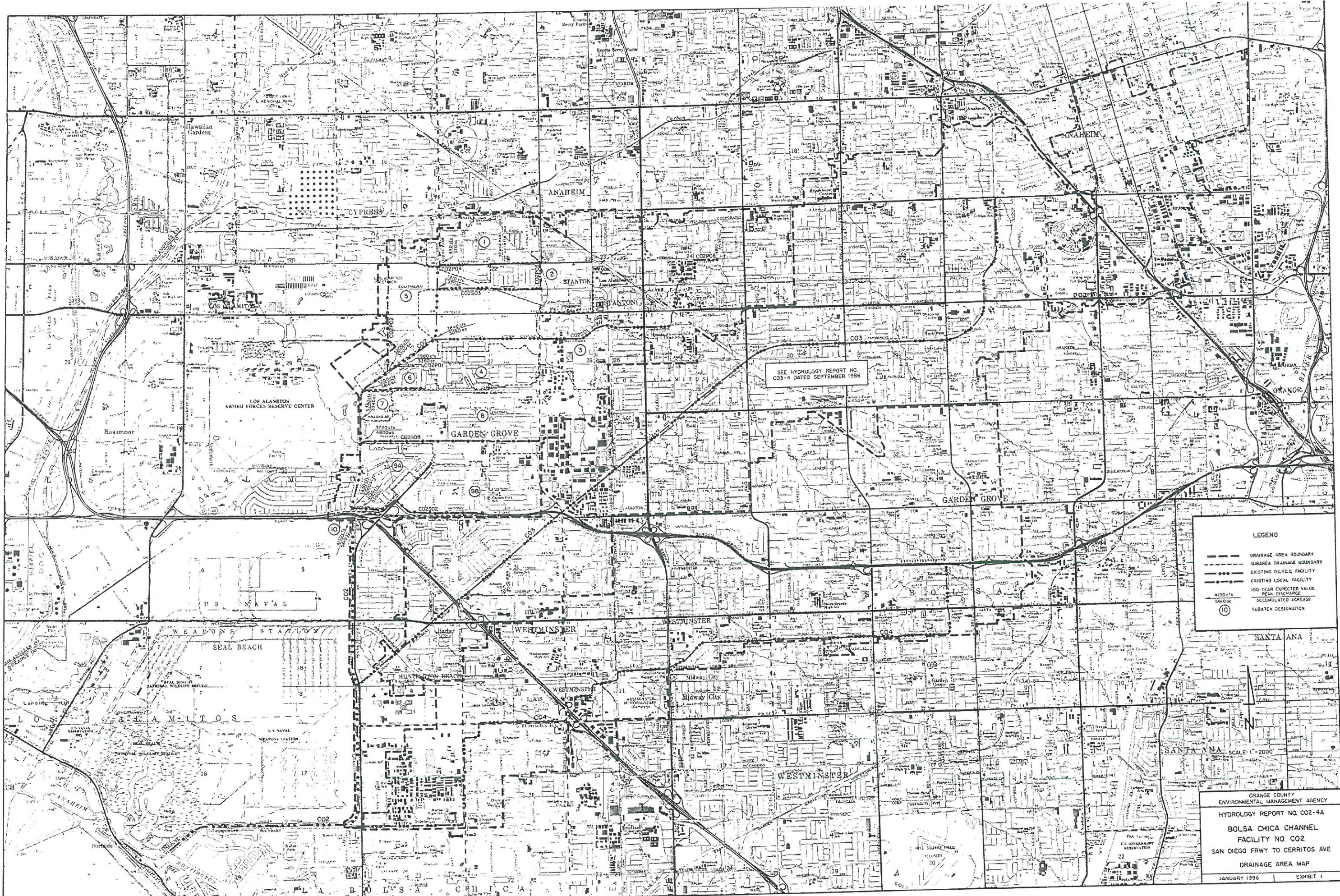


Exhibit E



SEE HYDROLOGY REPORT NO. CO2-4 DATED SEPTEMBER 1986

LEGEND

- DRAINAGE AREA BOUNDARY
- - - SUBAREA DRAINAGE BOUNDARY
- EXISTING DGRCC FACILITY
- EXISTING LOCAL FACILITY
- 100 YEAR EXPECTED VALUE PEAK DISCHARGE
- ACCUMULATED ACREAGE
- ⑩ SUBAREA DESIGNATION

SANTA ANA

SCALE: 1" = 2000'

SANTA ANA

ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY

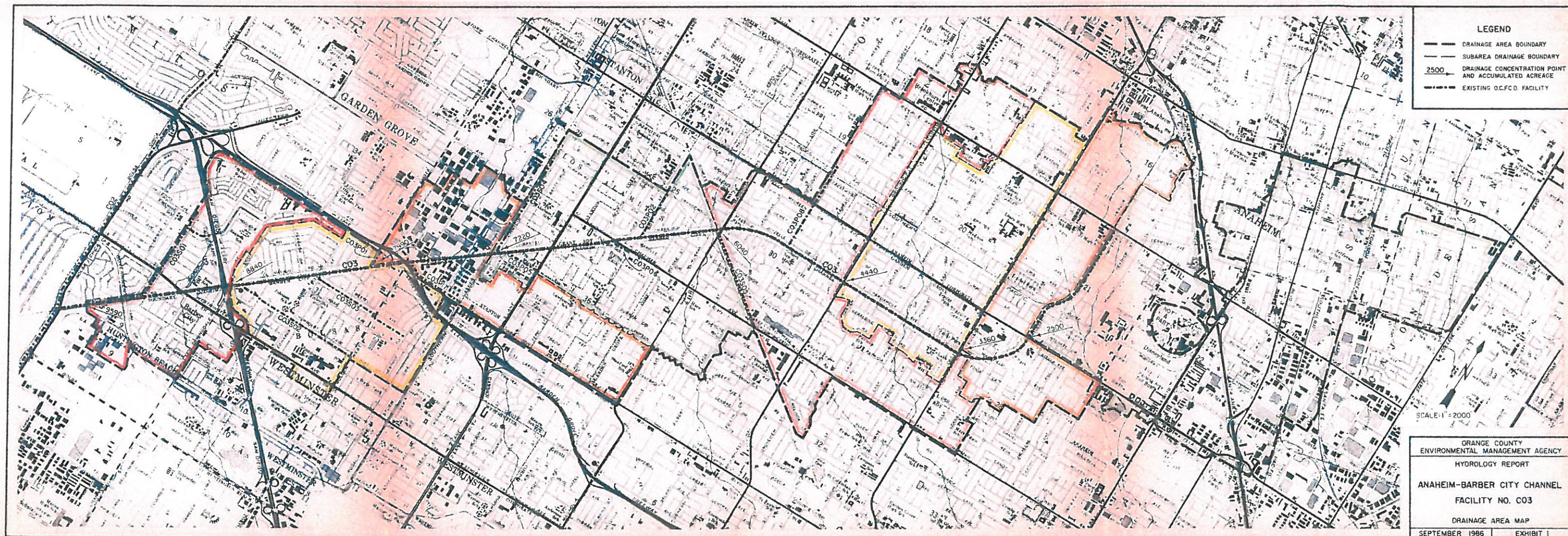
HYDROLOGY REPORT NO. CO2-4A

**BOLSA CHICA CHANNEL
FACILITY NO. CO2**

SAN DIEGO FWY TO CERRITOS AVE

DRAINAGE AREA MAP

JANUARY 1996 EXHIBIT 1

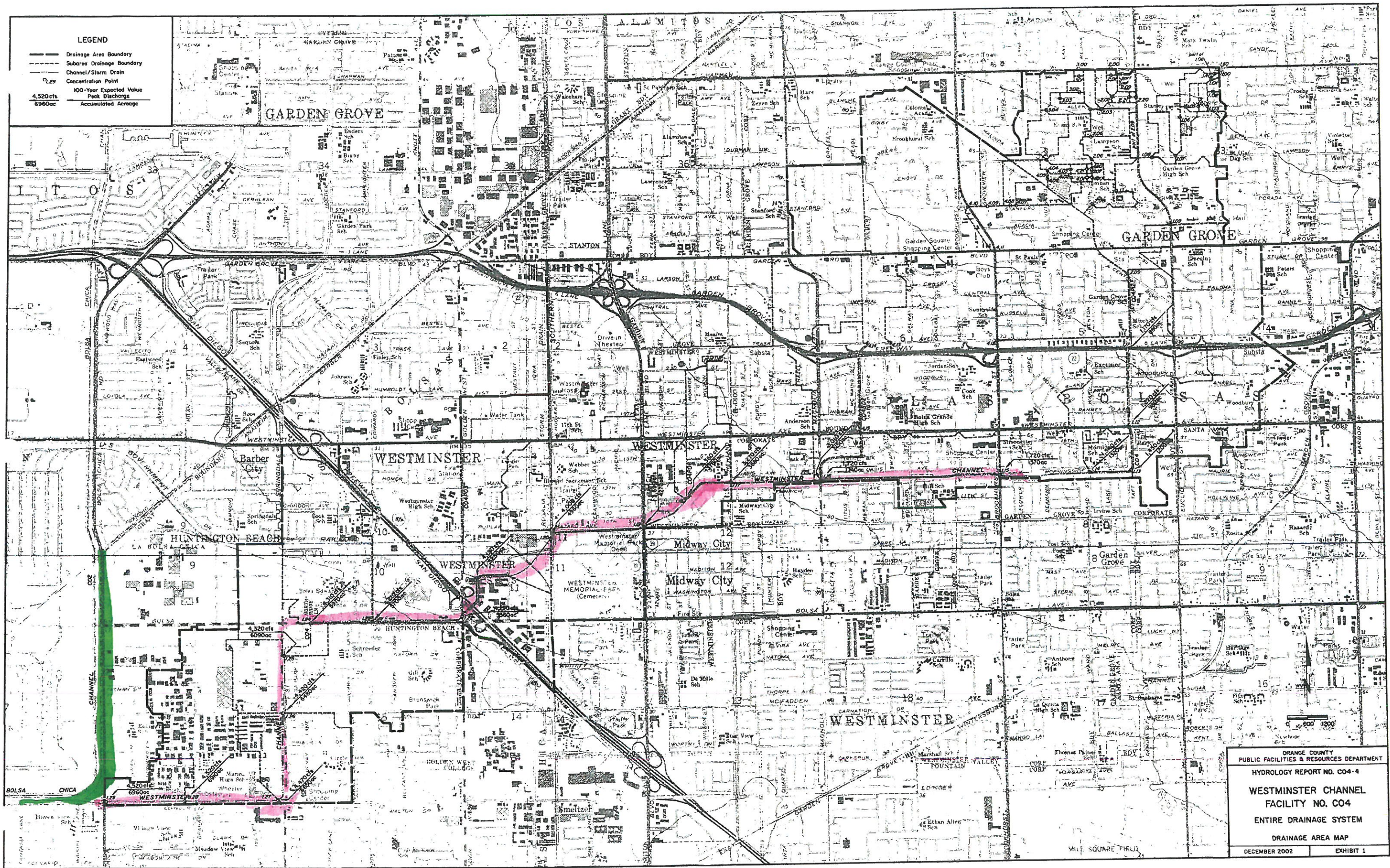


LEGEND

- DRAINAGE AREA BOUNDARY
- SUBAREA DRAINAGE BOUNDARY
- 2500 DRAINAGE CONCENTRATION POINT AND ACCUMULATED ACREAGE
- EXISTING O.C.F.C.O. FACILITY

SCALE: 1" = 2000'

ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY
HYDROLOGY REPORT
ANAHEIM-BARBER CITY CHANNEL
FACILITY NO. C03
DRAINAGE AREA MAP
SEPTEMBER 1986 EXHIBIT I



LEGEND

- COUNTY DRAINAGE BOUNDARY
- MAJOR SUBAREA BOUNDARY
- FLOOD CONTROL CHANNEL
- STORM DRAIN
- CATCH BASIN
- 100-YEAR FLOOD PEAK DISCHARGE
- CONCENTRATION POINT
- LAND USE
- COMMERCIAL / INDUSTRIAL
- SINGLE FAMILY RES 5-7 DU / AC
- SCHOOL
- SAIL GROUP BOUNDARY / PERIMETER
- ELEVATION CONTOURS
- CITY / COUNTY BOUNDARY

**EDINGER STORM CHANNEL
FACILITY NO. C05S05
ENTIRE DRAINAGE SYSTEM**

ORANGE COUNTY
PUBLIC FACILITIES AND RESOURCES DEPARTMENT
HYDROLOGY REPORT NO. C05S09-2

OCTOBER 2003

DRAINAGE AREA, LAND USE, AND SOIL GROUPS MAP

SUBMIT 1

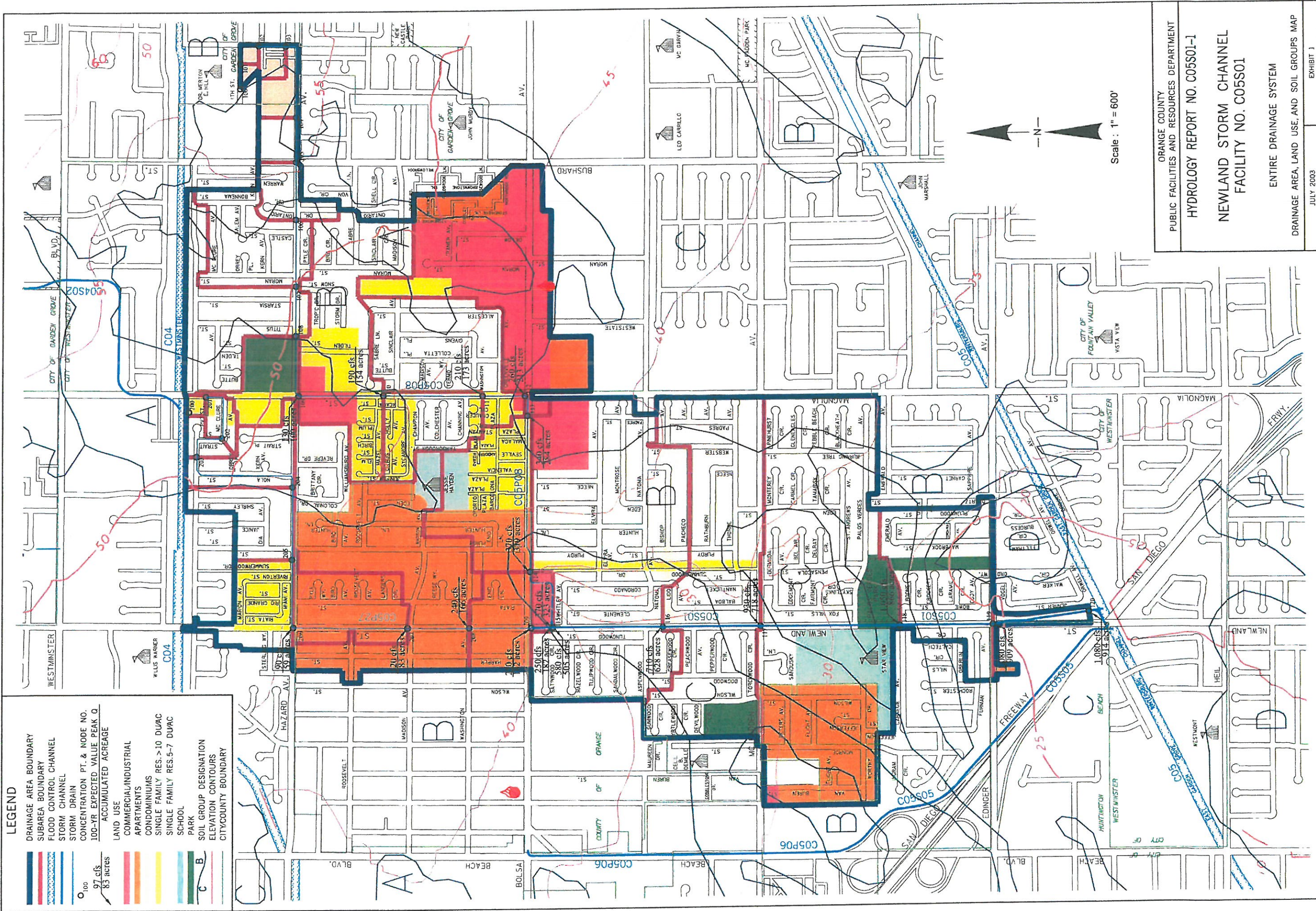
EDINGER STORM CHANNEL
FACILITY NO. C05S05
ENTIRE DRAINAGE SYSTEM

DRAINAGE AREA, LAND USE, AND SOIL GROUPS MAP	OUTDOOR FOODS	EXHIBIT 2
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LEGEND

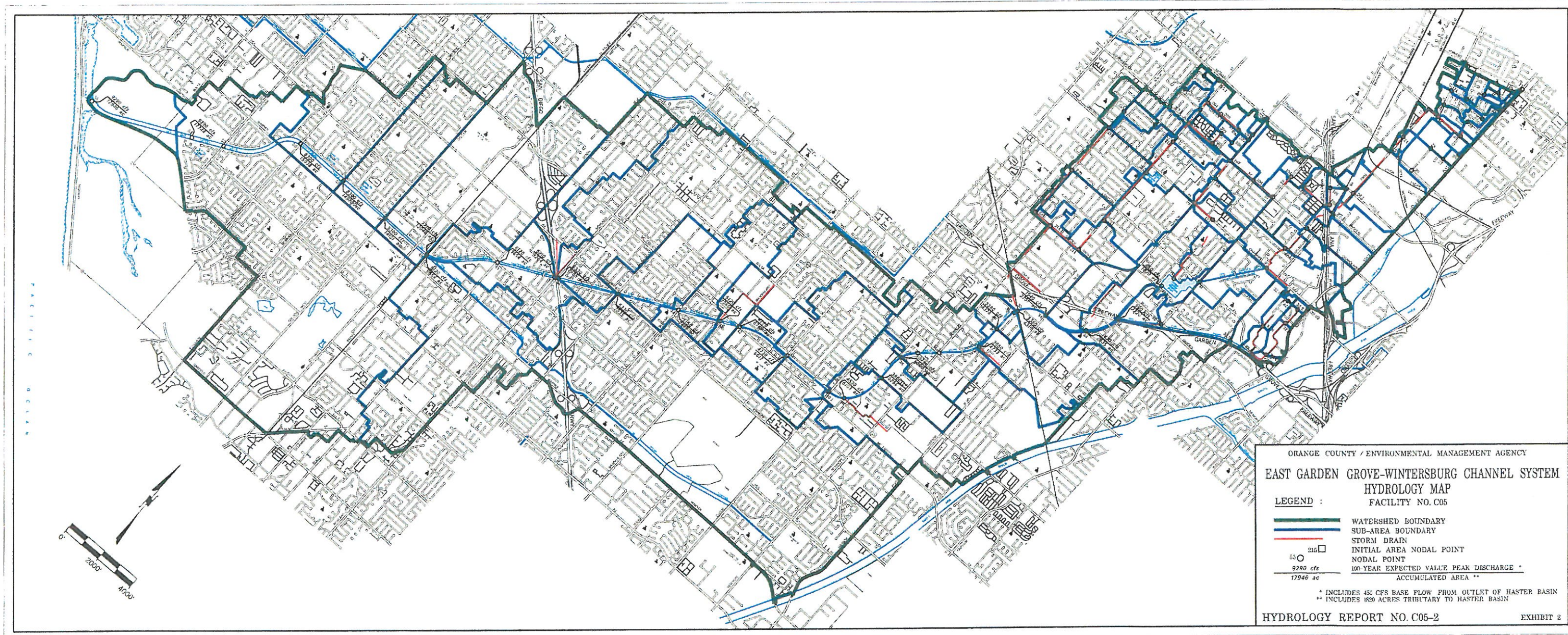
DRAINAGE AREA BOUNDARY
 SUBAREA BOUNDARY
 FLOOD CONTROL CHANNEL
 STORM CHANNEL
 STORM DRAIN
 CONCENTRATION PT. & NODE NO.
 100-YR EXPECTED VALUE PEAK Q
 ACCUMULATED ACREAGE
 LAND USE
 COMMERCIAL/INDUSTRIAL
 APARTMENTS
 CONDOMINIUMS
 SINGLE FAMILY RES. > 10 DU/AC
 SINGLE FAMILY RES. 5-7 DU/AC
 SCHOOL
 PARK
 SOIL GROUP DESIGNATION
 ELEVATION CONTOURS
 CITY/COUNTY BOUNDARY

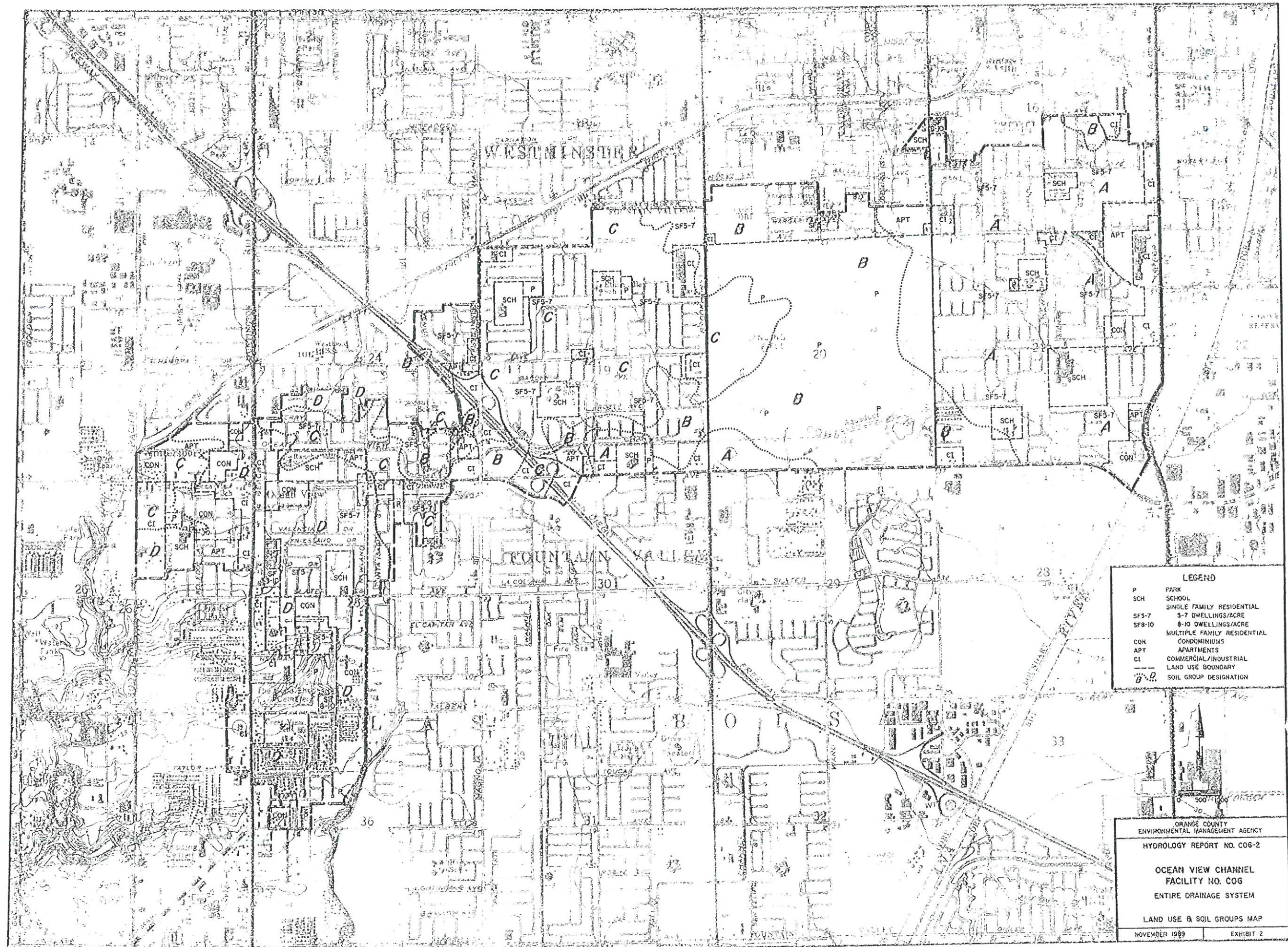
100 cfs
 97 cfs
 83 cfs

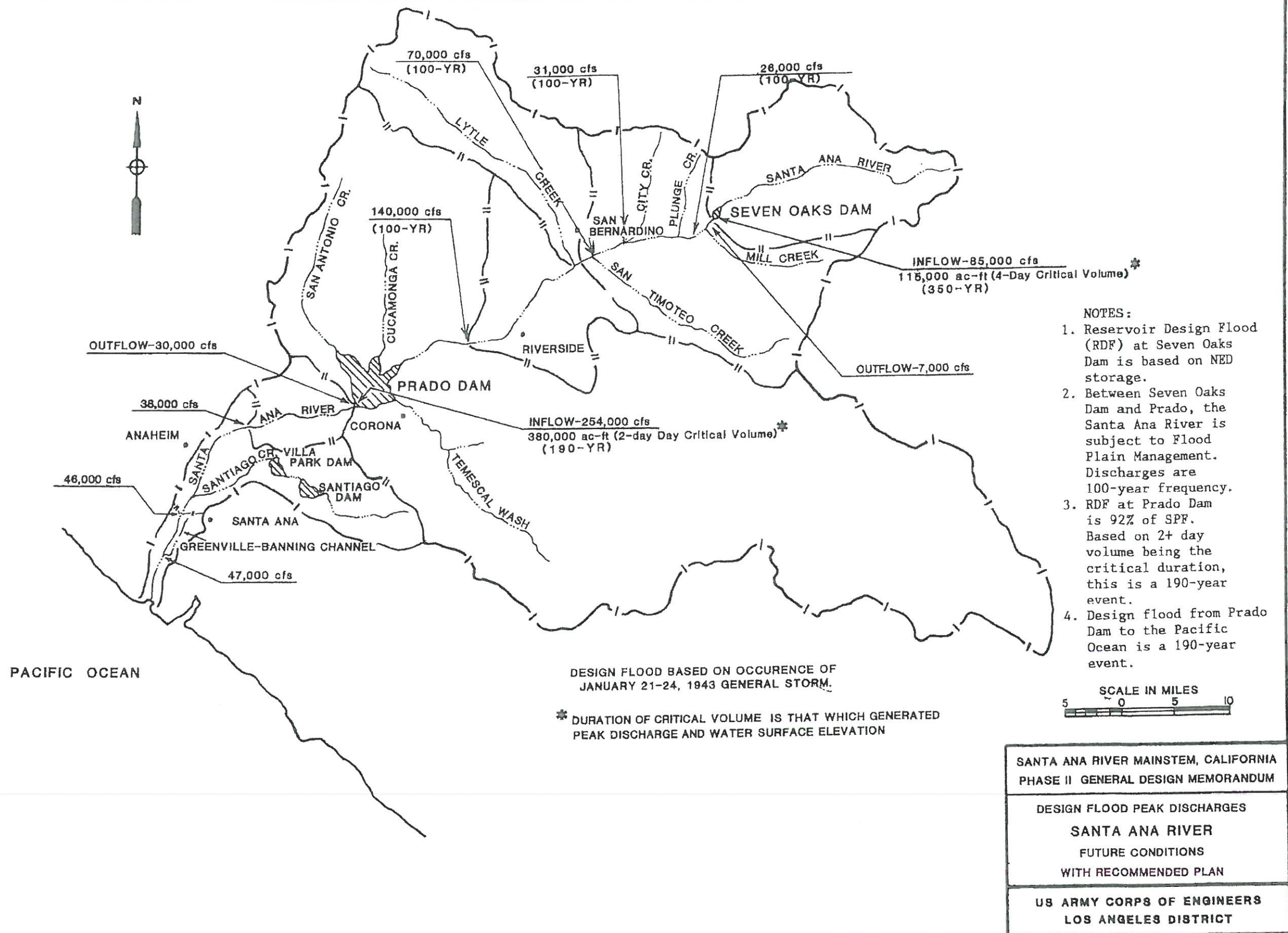


Scale : 1" = 600'

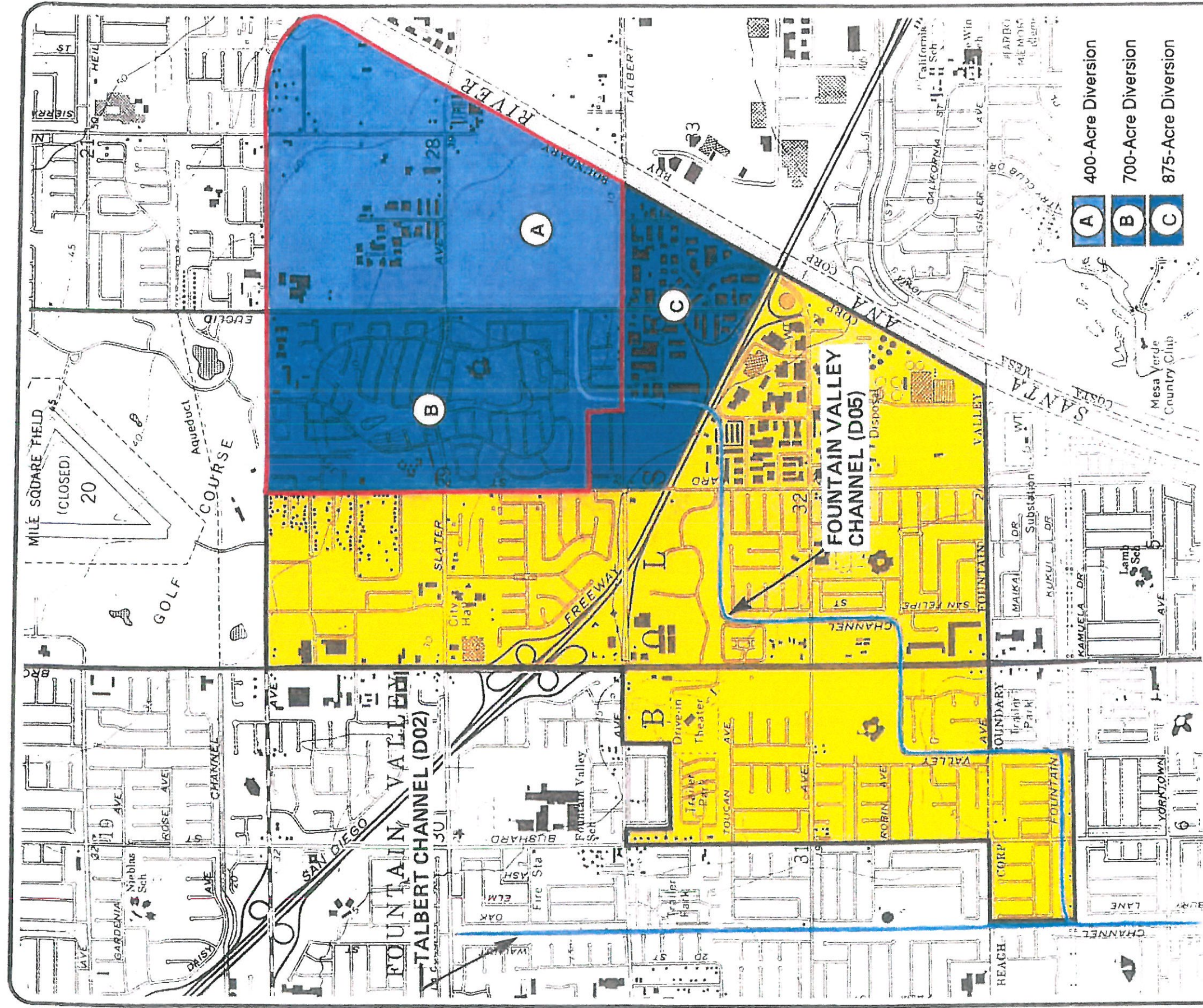
ORANGE COUNTY
 PUBLIC FACILITIES AND RESOURCES DEPARTMENT
 HYDROLOGY REPORT NO. C05S01-1
 NEWLAND STORM CHANNEL
 FACILITY NO. C05S01
 ENTIRE DRAINAGE SYSTEM
 DRAINAGE AREA, LAND USE, AND SOIL GROUPS MAP
 JULY 2003
 EXHIBIT 1







- NOTES:
1. Reservoir Design Flood (RDF) at Seven Oaks Dam is based on NED storage.
 2. Between Seven Oaks Dam and Prado, the Santa Ana River is subject to Flood Plain Management. Discharges are 100-year frequency.
 3. RDF at Prado Dam is 92% of SPF. Based on 2+ day volume being the critical duration, this is a 190-year event.
 4. Design flood from Prado Dam to the Pacific Ocean is a 190-year event.



Fountain Valley Channel Watershed



Recommended Watershed Diversion

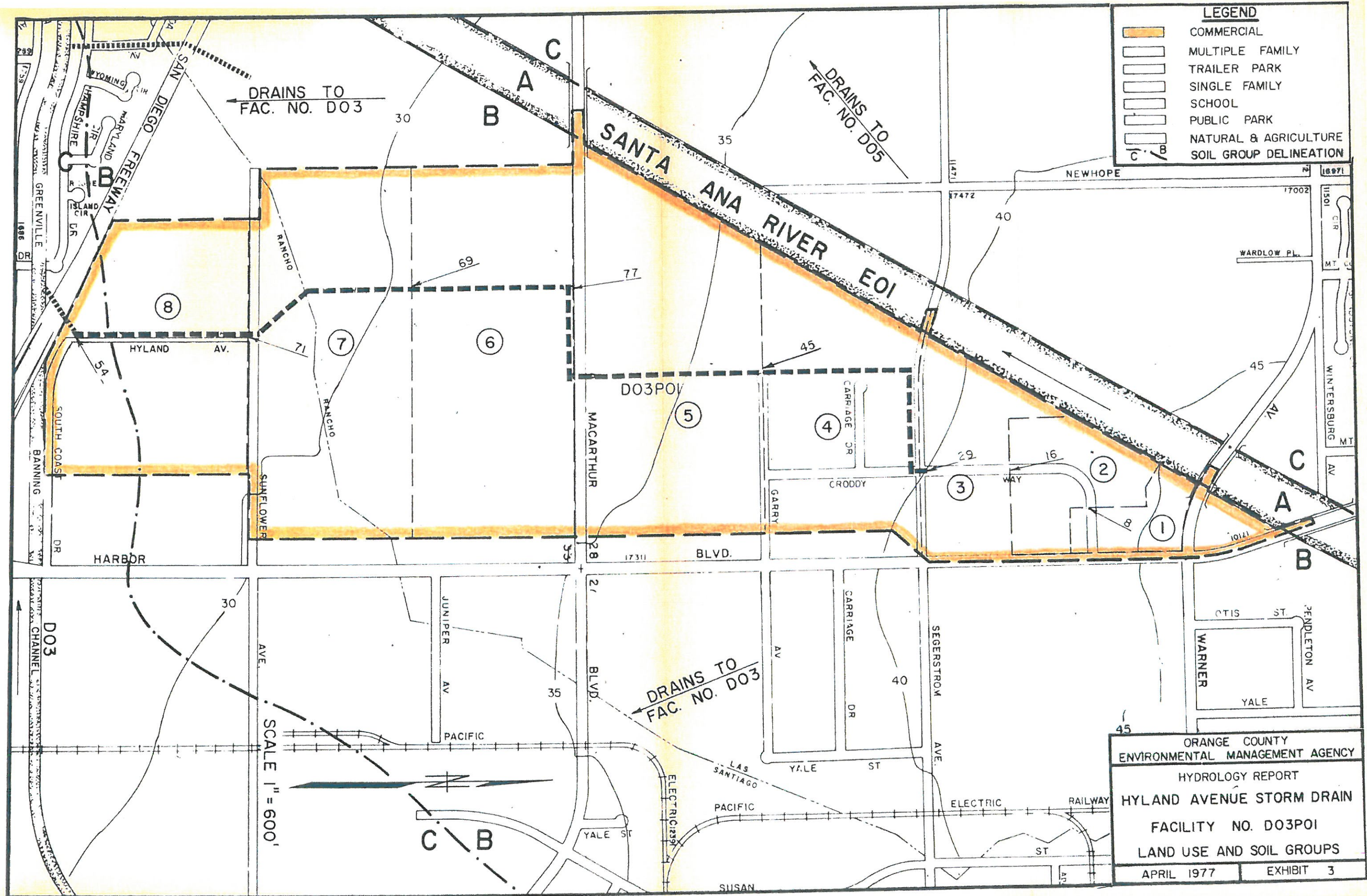


0 2000'

FOUNTAIN VALLEY CHANNEL DIVERSION

Watershed Map

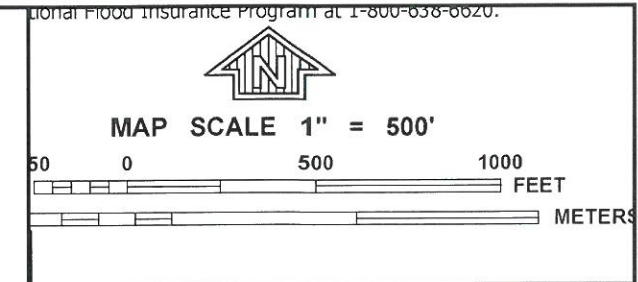
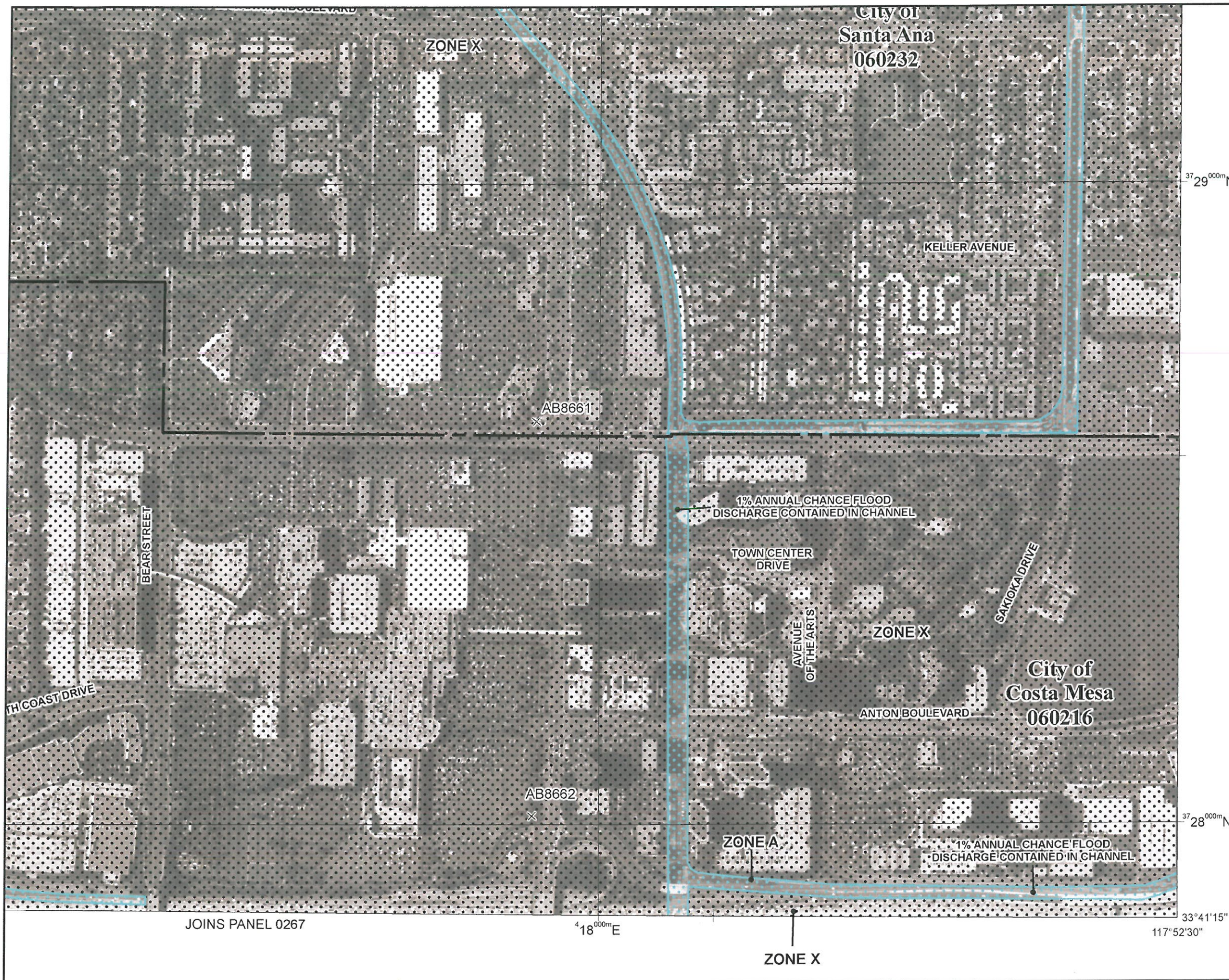
Robert Bein, William Post & Associates
4-88 JN 24462-1621



APPENDIX B

FEMA FIRM MAPS





NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0259J

FIRM
FLOOD INSURANCE RATE MAP


ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 259 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0259	J
SANTA ANA, CITY OF	060232	0259	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

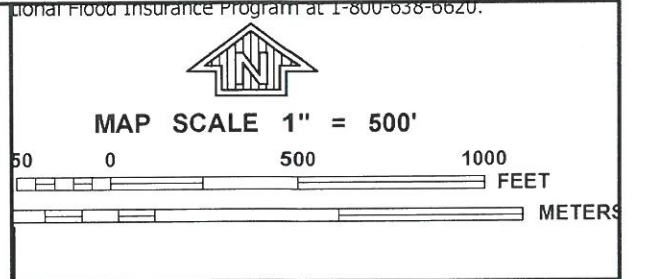
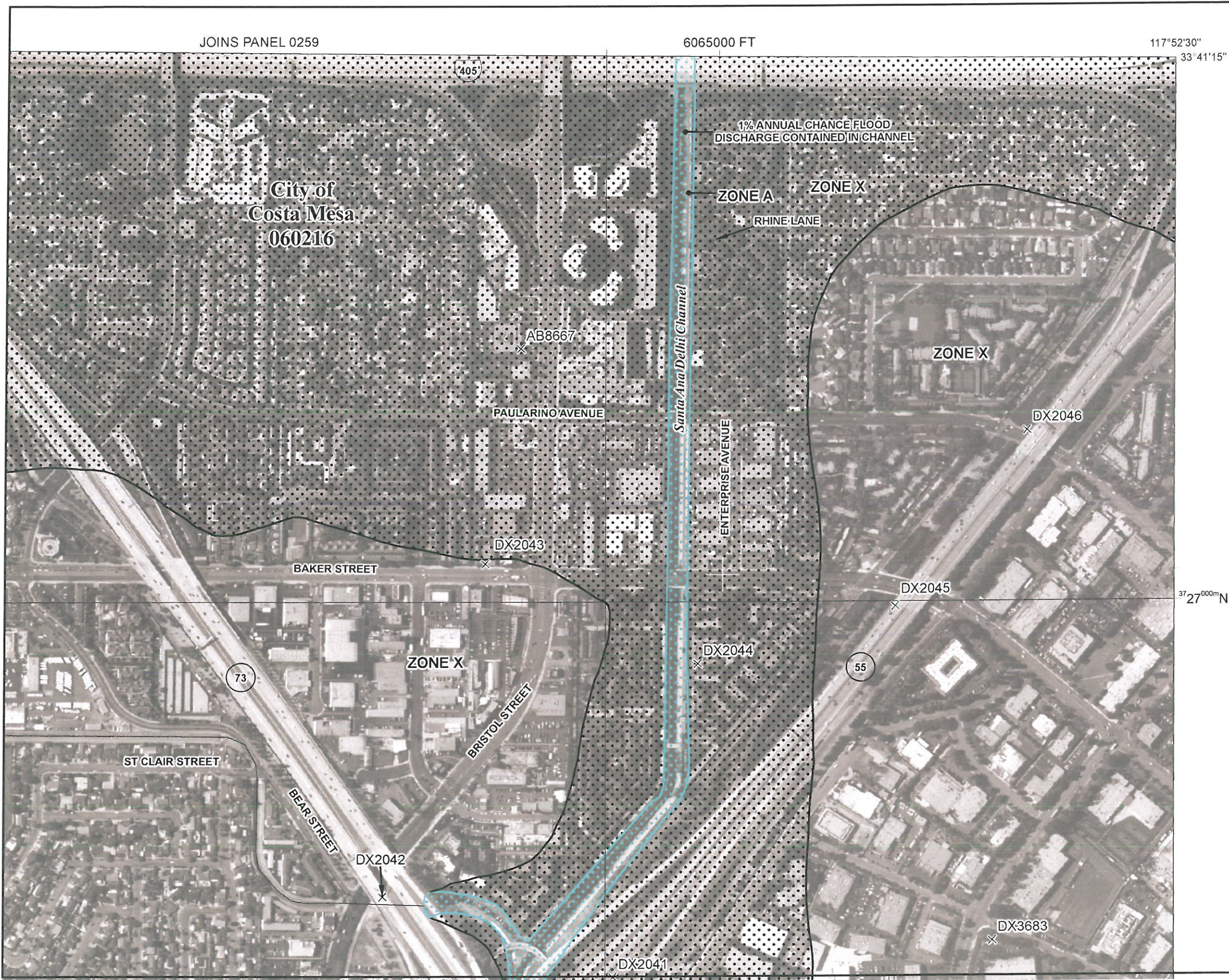
**MAP NUMBER**
06059C0259J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

DELHI CHANNEL
1 OF 2

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NFIP

PANEL 0267J

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 267 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0267	J
NEWPORT BEACH, CITY OF	060227	0267	J
ORANGE COUNTY	060212	0267	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06059C0267J

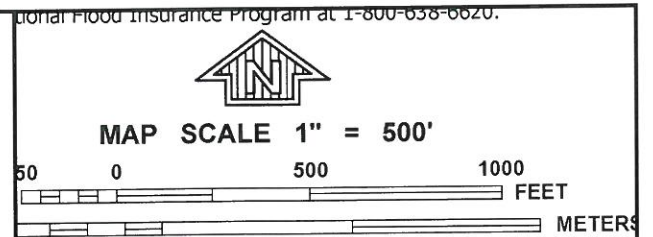
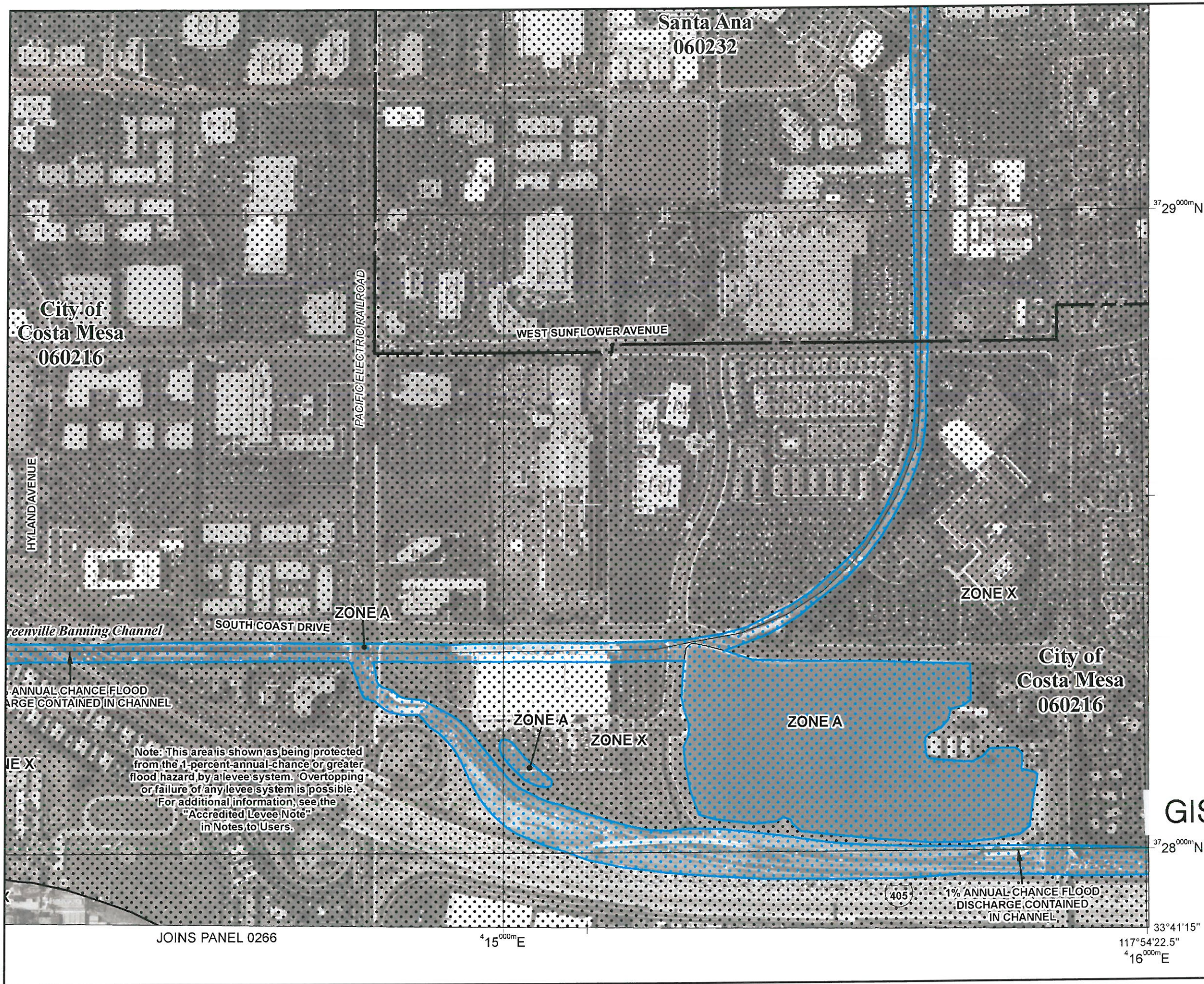
MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

DELHI CHANNEL

2 OF 2

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NFIP

PANEL 0258J

FIRM
FLOOD INSURANCE RATE MAP


ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 258 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0258	J
FOUNTAIN VALLEY, CITY OF	060218	0259	J
SANTA ANA, CITY OF	060232	0259	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

 MAP NUMBER
06059C0258J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

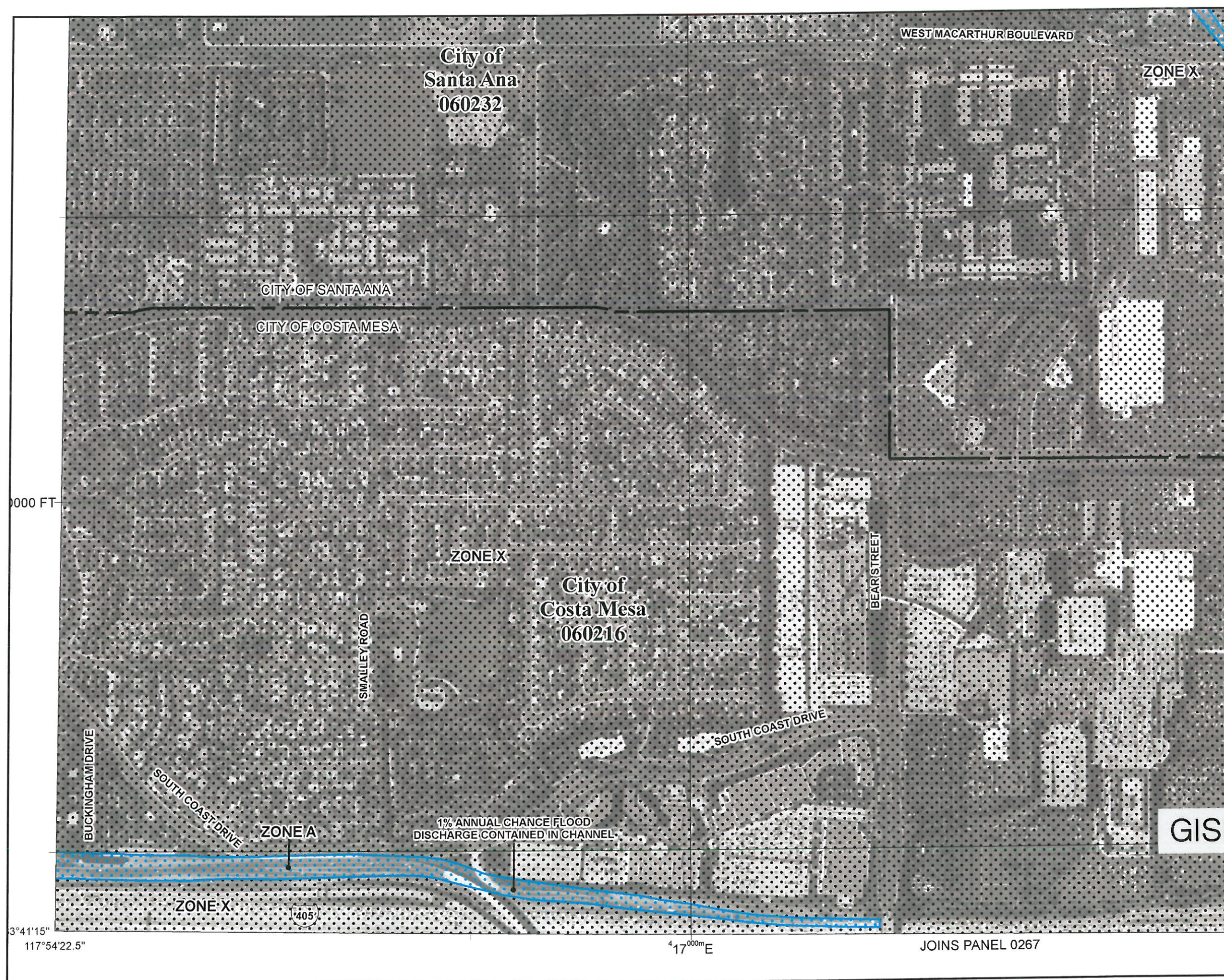
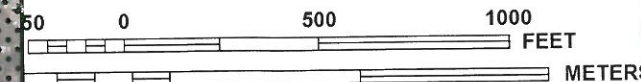
GISLER STORM CHANNEL

1 OF 2

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'



PANEL 0259J

NFIP

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 259 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0259	J
SANTA ANA, CITY OF	060232	0259	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06059C0259J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

GISLER STORM CHANNEL

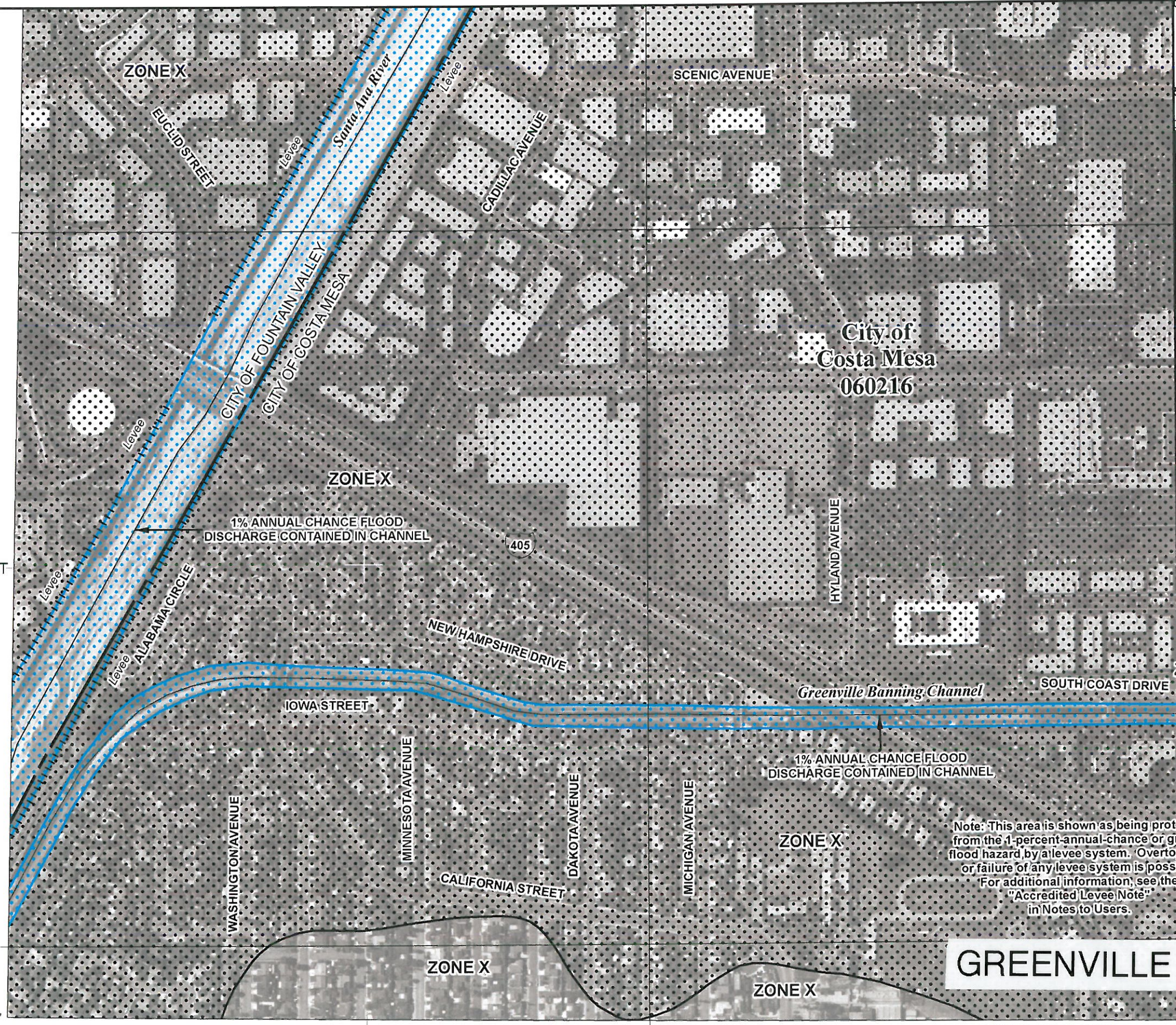
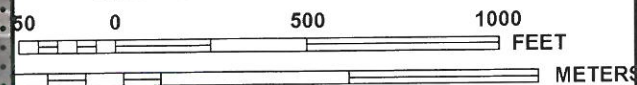
2 OF 2

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

JOINS PANEL 0267



MAP SCALE 1" = 500'



2200000 FT

33°41'15"
117°56'15"

414°000m E

GREENVILLE BANNING CHANNEL

JOINS PANEL 0266

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0258J

FIRM FLOOD INSURANCE RATE MAP

ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 258 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0258	J
FOUNTAIN VALLEY, CITY OF	060218	0258	J
SANTA ANA, CITY OF	060232	0258	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



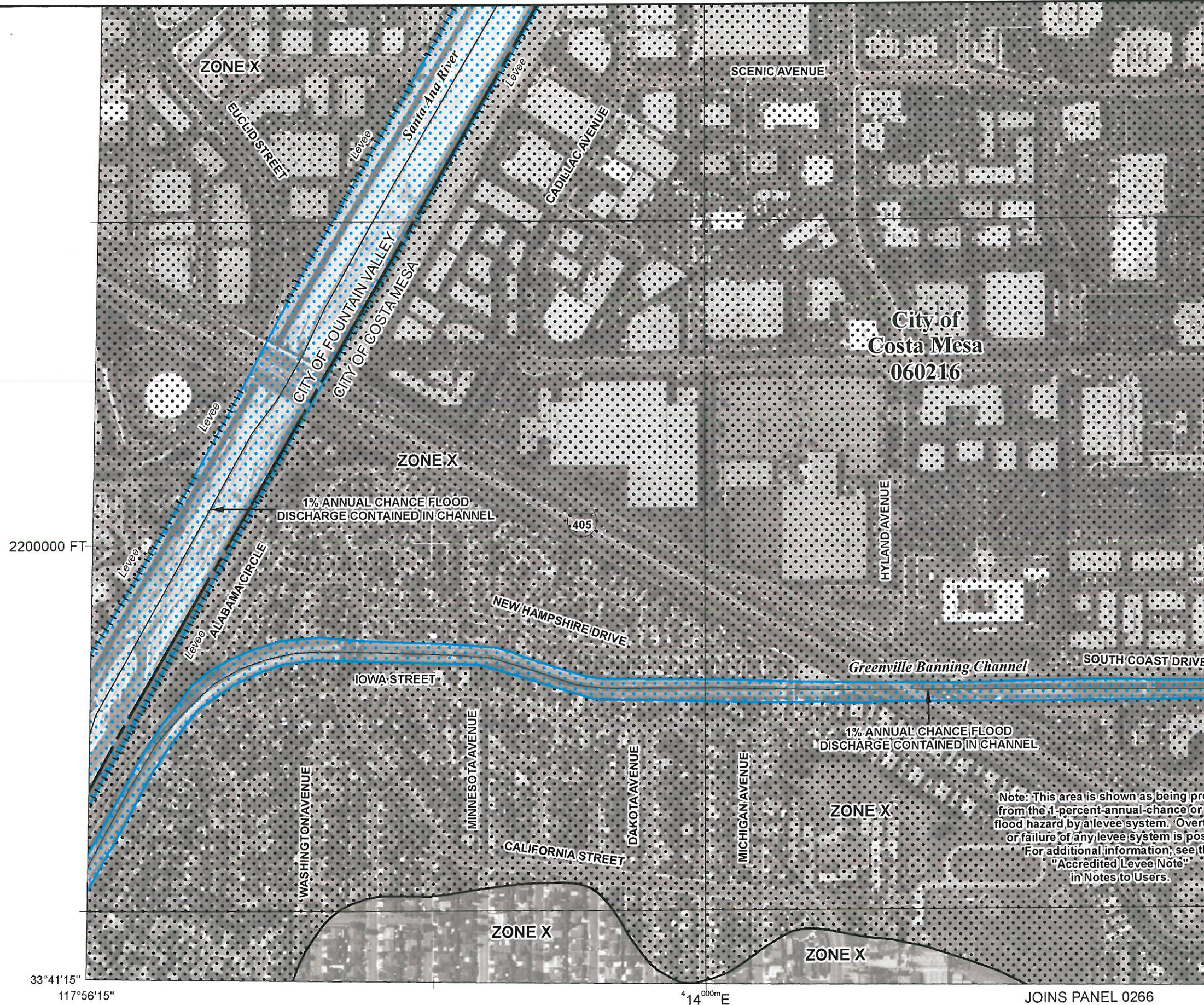
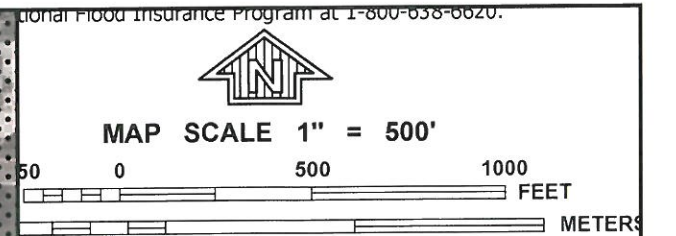
MAP NUMBER
06059C0258J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

Note: This area is shown as being protected from the 1-percent-annual-chance or greater flood hazard by a levee system. Overtopping or failure of any levee system is possible. For additional information, see the "Accredited Levee Note" in Notes to Users.

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NFIP

PANEL 0258J

FIRM

FLOOD INSURANCE RATE MAP

ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS


PANEL 258 OF 539

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0258	J
FOUNTAIN VALLEY, CITY OF	060218	0258	J
SANTA ANA, CITY OF	060232	0259	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



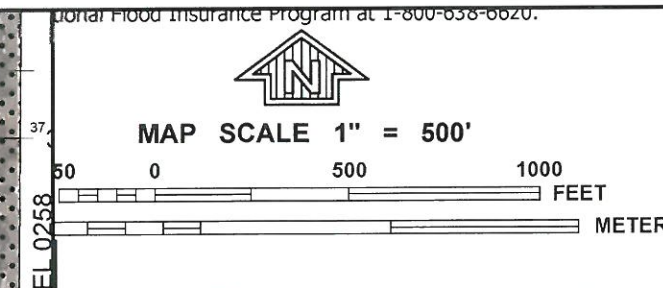
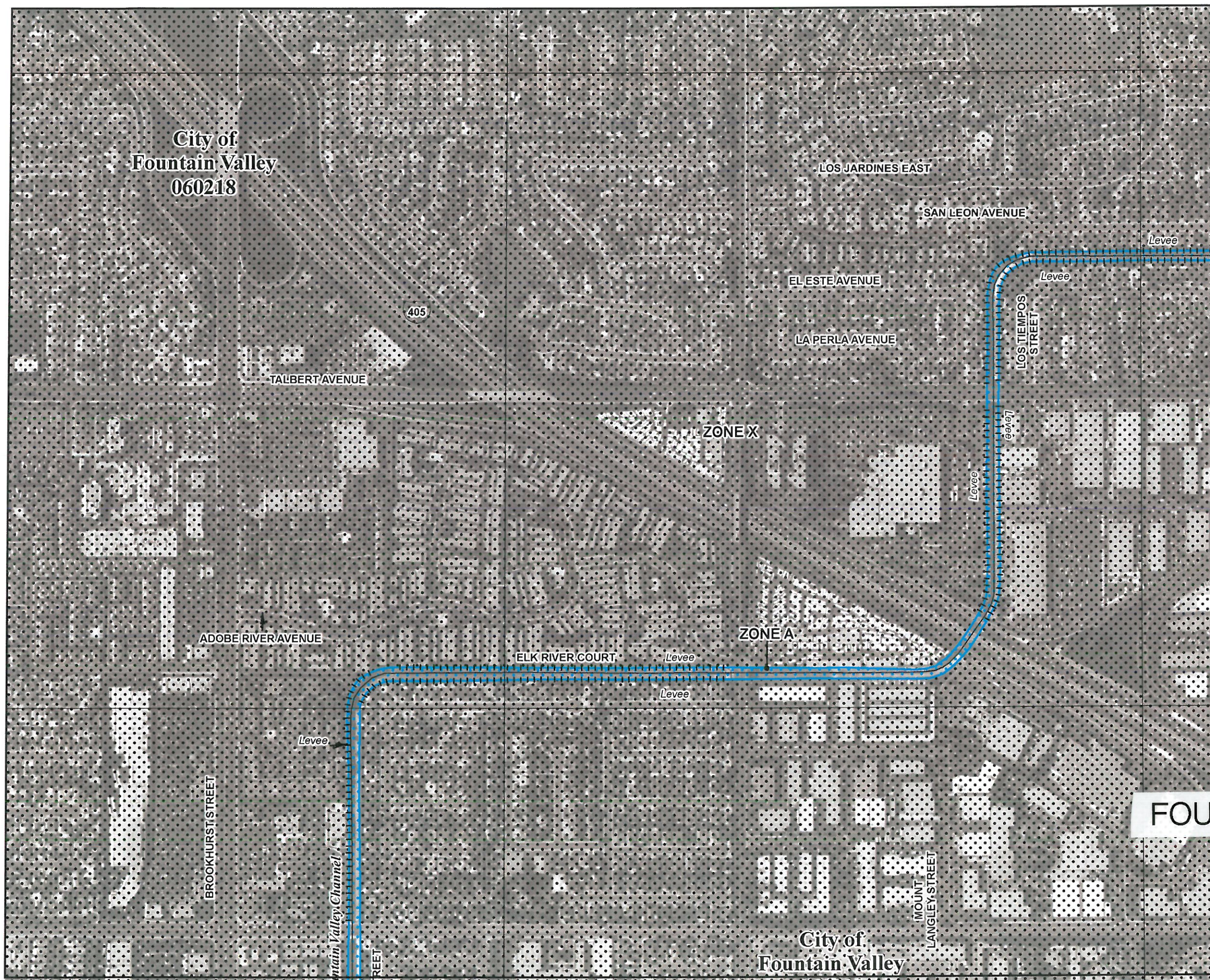
MAP NUMBER
06059C0258J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

SANTA ANA RIVER

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JOINS PANEL 0258

NFIP

PANEL 0254J

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 254 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0254	J
FOUNTAIN VALLEY, CITY OF	060218	0254	J

Notice to User: The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06059C0254J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

FOUNTAIN VALLEY CHANNEL

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117°58'07.5"
'07.5"

6040000 FT

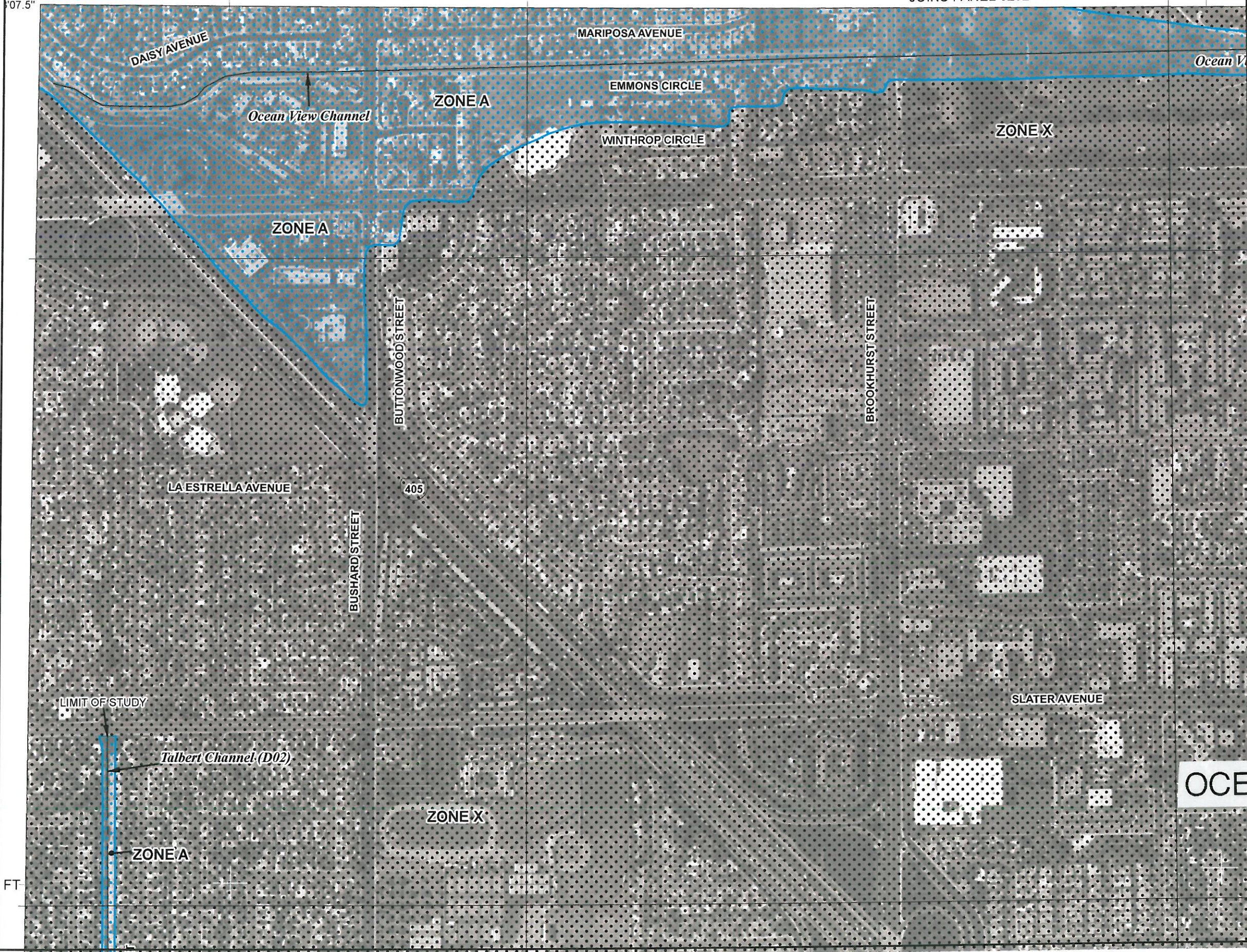
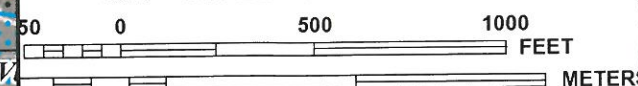
JOINS PANEL 0252

6045000 FT

National Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0254J

FIRM
FLOOD INSURANCE RATE MAP


ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 254 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COSTA MESA, CITY OF	060216	0254	J
FOUNTAIN VALLEY, CITY OF	060218	0254	J

Notice to User: The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community.

 **MAP NUMBER**
06059C0254J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

OCEAN VIEW CHANNEL

1 OF 2

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

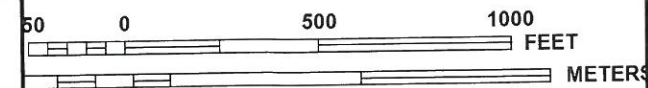
JOINS PANEL 0251 6035000 FT

117°58'07.5"

33°43'07.5"



MAP SCALE 1" = 500'



Note: This area shown is being protected from the 1-percent-annual-chance flood hazard by a levee system. Overtopping or failure of any levee system is possible. For additional information, see the "Accredited Levee Note" in Notes to Users.

ZONE X

ZONE A

1% ANNUAL CHANCE
FLOOD DISCHARGE
CONTAINED IN CHANNEL

ZONE A

Ocean View Channel

RECREATION CIRCLE

37°31'00.0"N

BLAYLOCK DRIVE

EL RANCHO AVENUE

City of
Fountain Valley
060218

SANTA CLARA STREET

FRIESLAND DRIVE

ZONE X

SANTA SUZANNE STREET

LA LUNA AVENUE

LA ZANA COURT

SLATER AVENUE

CAMERON STREET

37°30'00.0"N

NFIP

PANEL 0253J

FIRM

FLOOD INSURANCE RATE MAP

ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 253 OF 539

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FOUNTAIN VALLEY, CITY OF	060218	0253	J
HUNTINGTON BEACH, CITY OF	065034	0253	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
06059C0253J

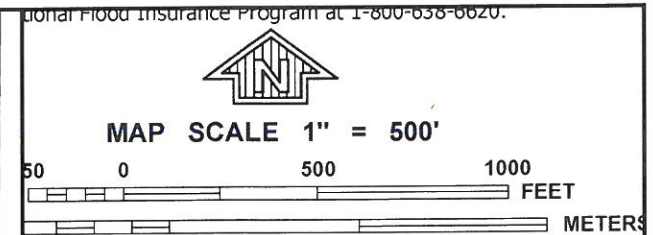
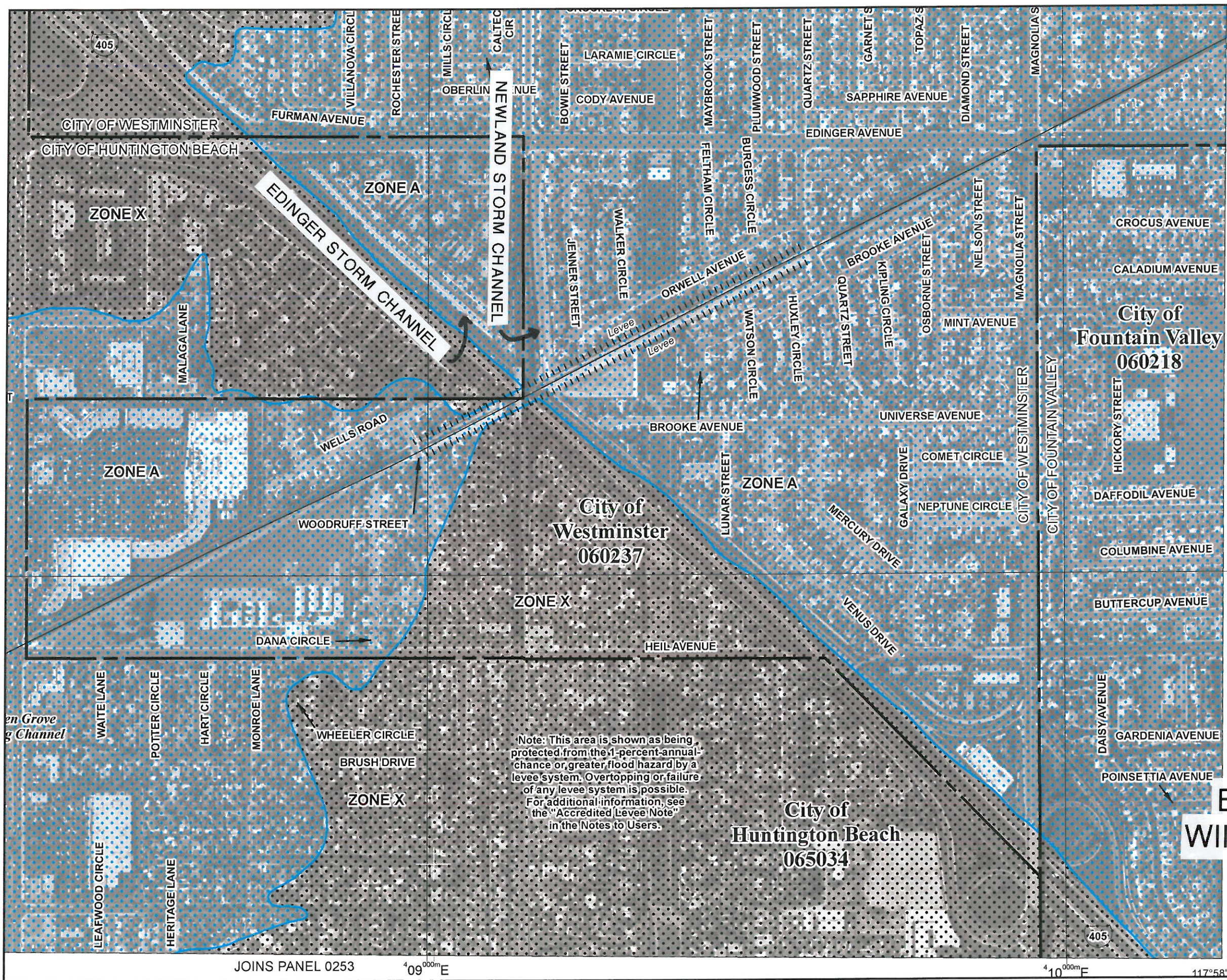
MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

OCEAN VIEW CHANNEL

2 OF 2

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0251J

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 251 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FOUNTAIN VALLEY, CITY OF	060218	0251	J
HUNTINGTON BEACH, CITY OF	065034	0251	J
ORANGE COUNTY	060212	0251	J
WESTMINSTER, CITY OF	060237	0251	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06059C0251J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

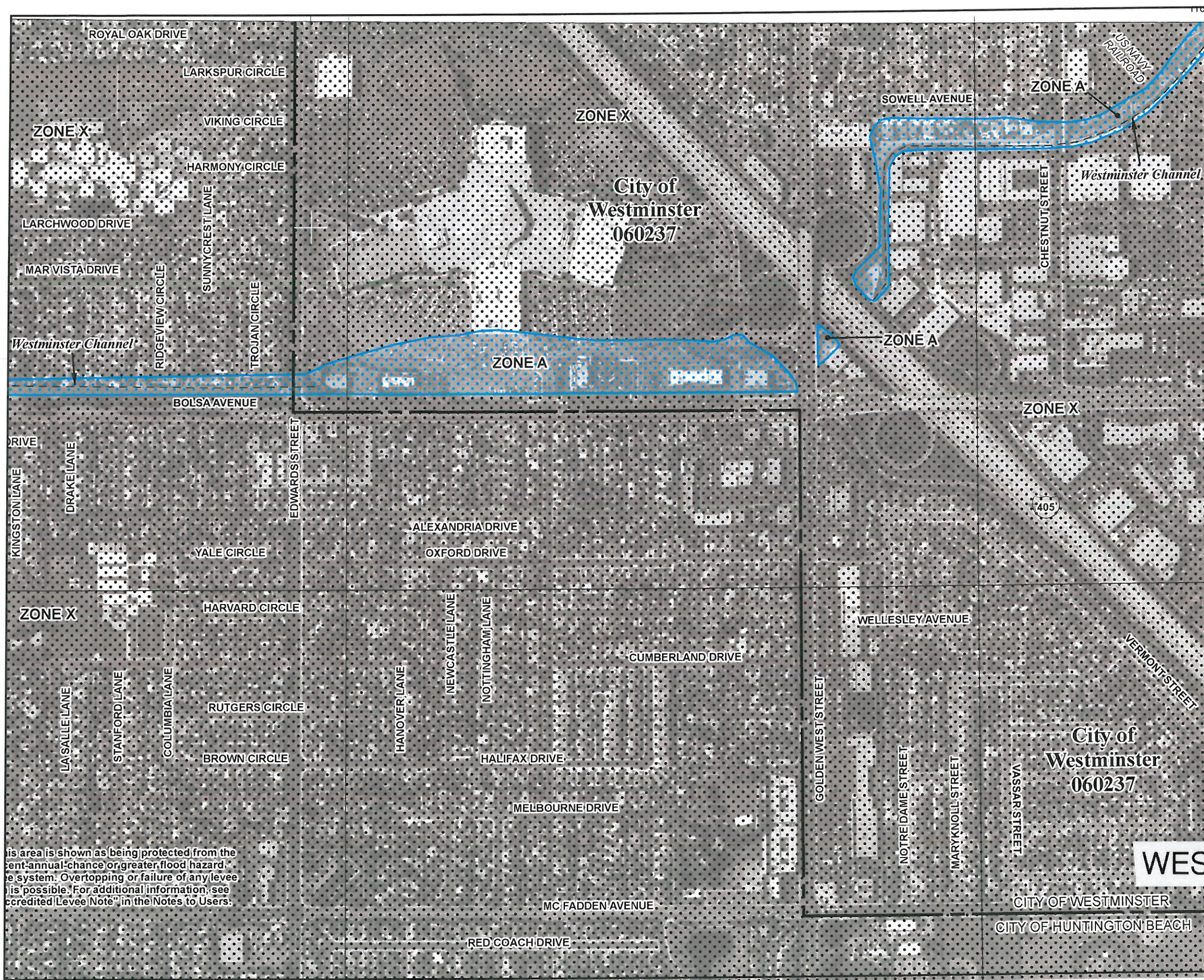
EAST GARDEN GROVE
WINTERSBURG CHANNEL
EDINGER CHANNEL
NEWLAND CHANNEL

JOINS PANEL 0253

4 09 000m E

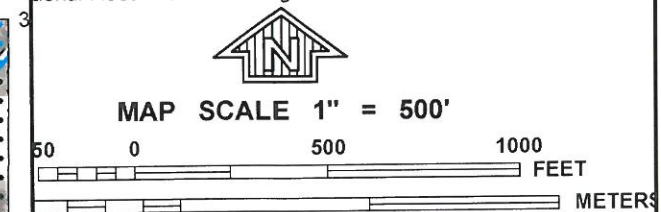
4 10 000m E

117°58'07" W Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



This area is shown as being protected from the
cent-annual-chance or greater flood hazard
by a levee system. Overtopping or failure of any levee
is possible. For additional information, see
the "Accredited Levee Note" in the Notes to Users.

For more information on the National Flood Insurance Program at 1-800-638-6620.



NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0232J

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 232 OF 539
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HUNTINGTON BEACH, CITY OF	065034	0232	J
WESTMINSTER, CITY OF	060237	0232	J

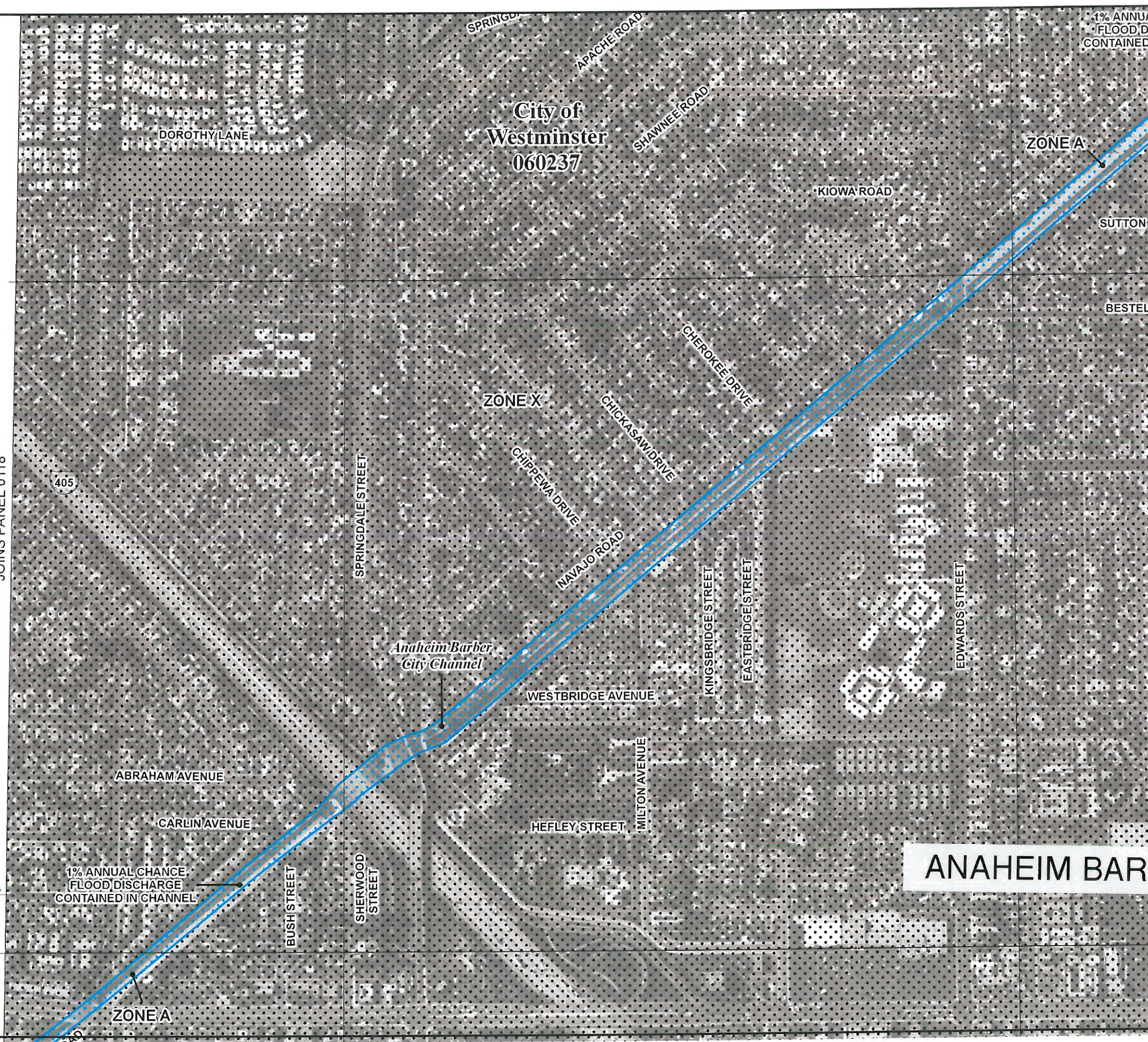
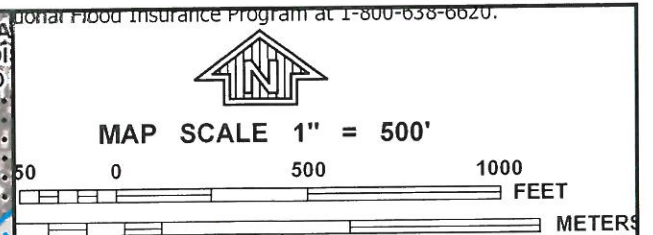
MAP NUMBER
06059C0232J

MAP REVISED
DECEMBER 3, 2009

Federal Emergency Management Agency

WESTMINSTER CHANNEL

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NFIP

PANEL 0119J

FIRM

FLOOD INSURANCE RATE MAP

ORANGE COUNTY, CALIFORNIA AND INCORPORATED AREAS


PANEL 119 OF 539

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GARDEN GROVE, CITY OF	060220	0119	J
HUNTINGTON BEACH, CITY OF	060304	0119	J
OF WESTMINSTER, CITY OF	060237	0119	J

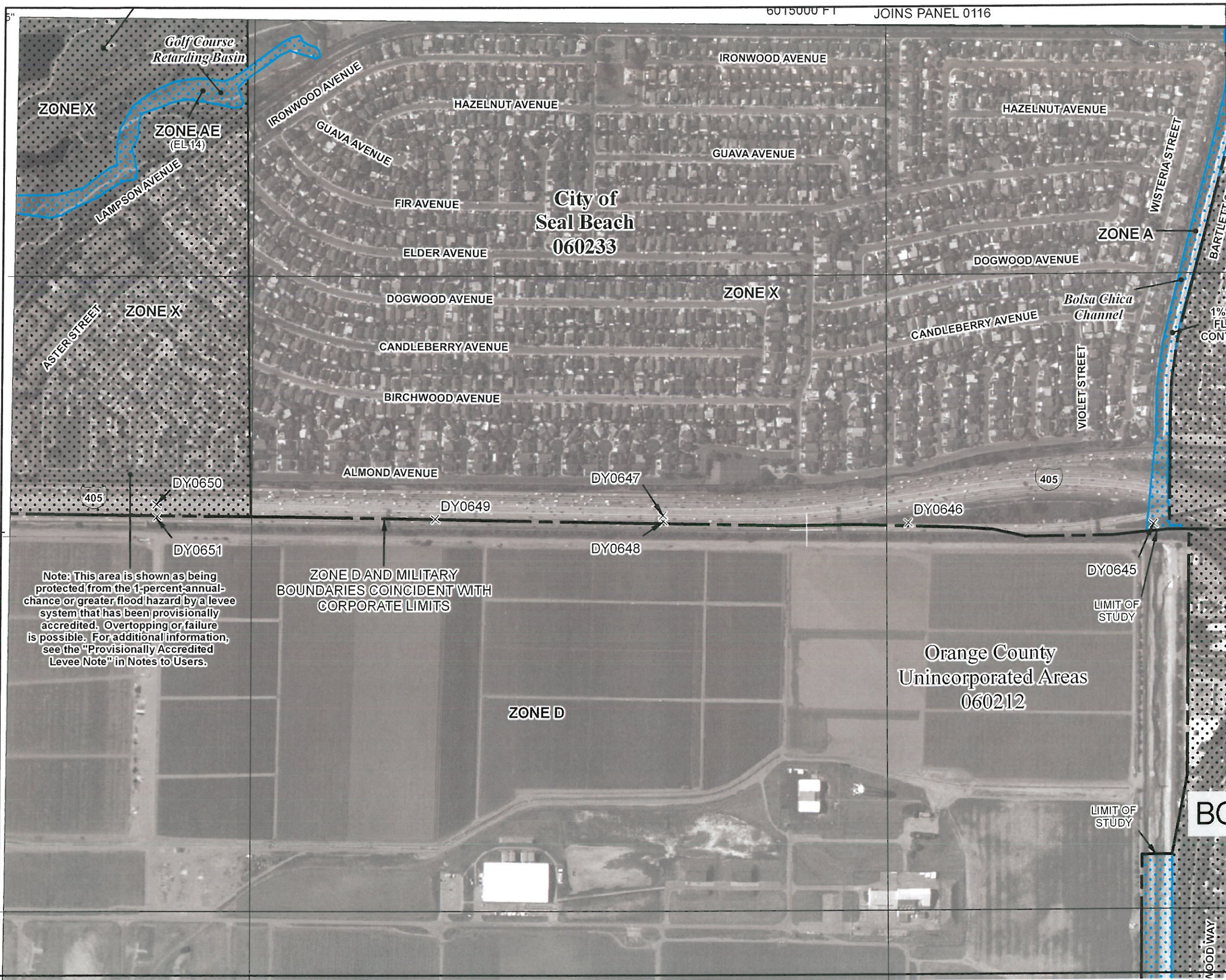
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

 MAP NUMBER 06059C0119J

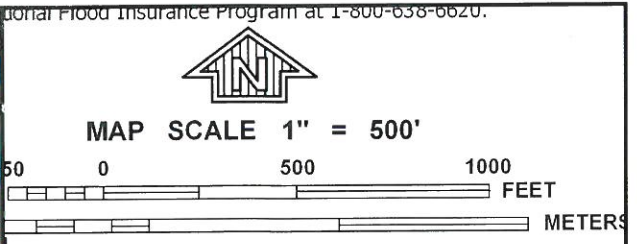
MAP REVISED DECEMBER 3, 2009

Federal Emergency Management Agency

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6015000 FT JOINS PANEL 0116



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0118J

FIRM

FLOOD INSURANCE RATE MAP

ORANGE COUNTY, CALIFORNIA

AND INCORPORATED AREAS


PANEL 118 OF 539

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GARDEN GROVE, CITY OF	060220	0118	J
HUNTINGTON BEACH, CITY OF	055034	0118	J
ORANGE COUNTY	050212	0118	J
SEAL BEACH, CITY OF	060233	0118	J
WESTMINSTER, CITY OF	060237	0118	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

 **MAP NUMBER**
06059C0118J

MAP REVISED
DECEMBER 3, 2009

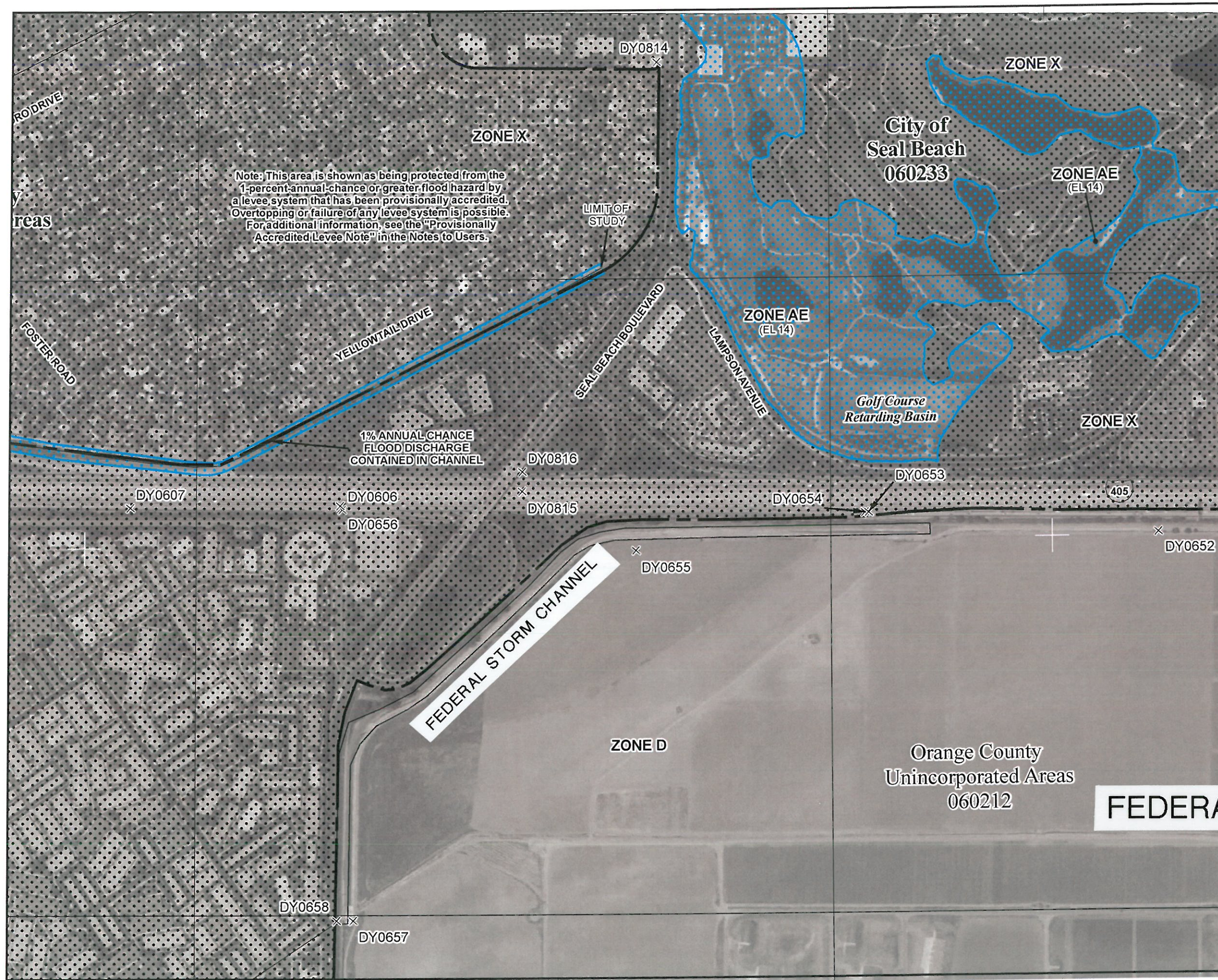
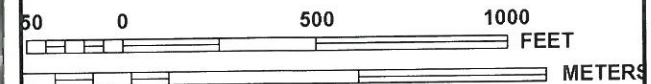
Federal Emergency Management Agency

BOLSA CHICA CHANNEL

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0114J

FIRM

FLOOD INSURANCE RATE MAP

ORANGE COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 114 OF 539

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ORANGE COUNTY	060212	0114	J
SEAL BEACH, CITY OF	060233	0114	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

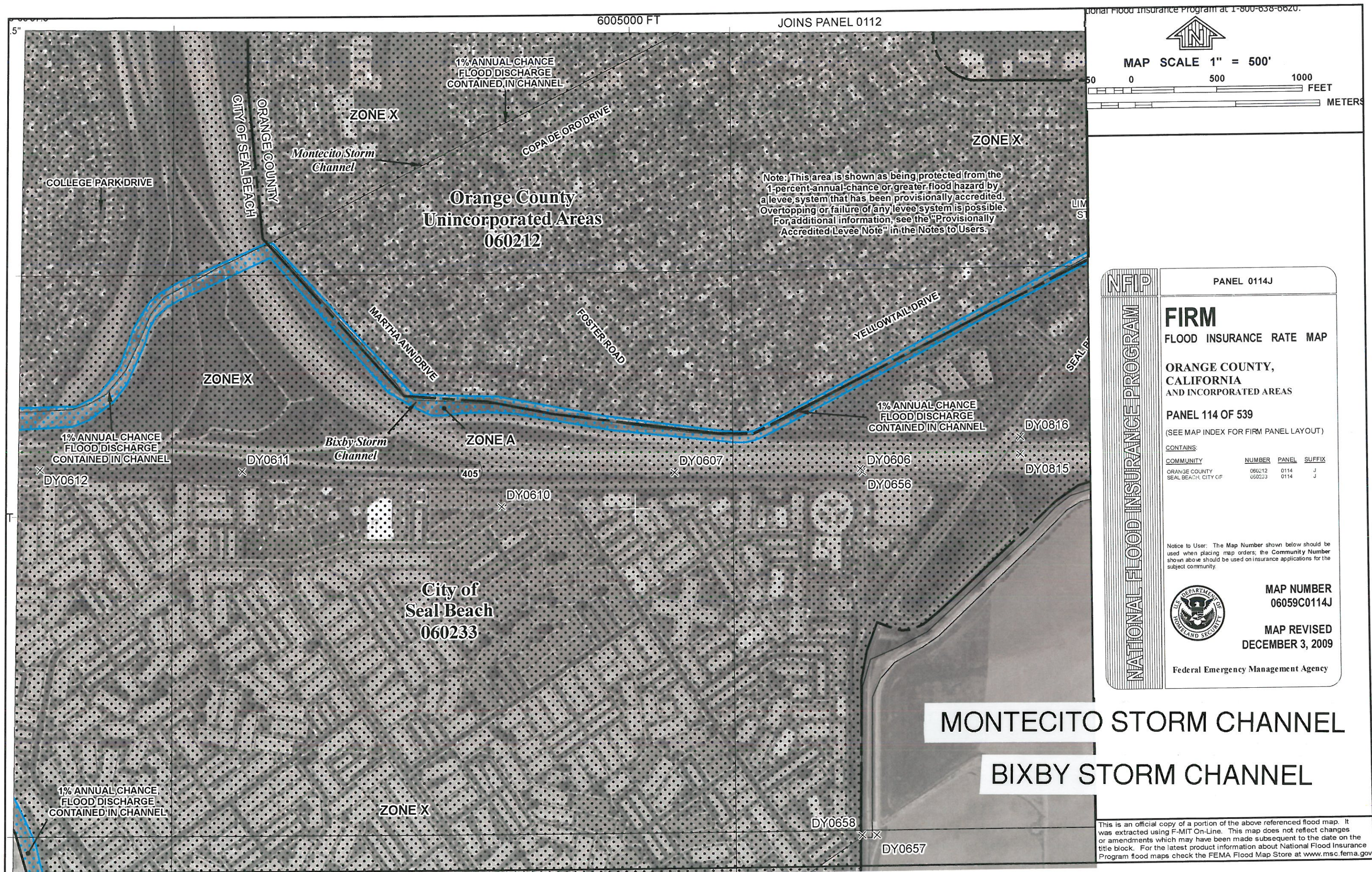
MAP NUMBER
06059C0114J

MAP REVISED
DECEMBER 3, 2009

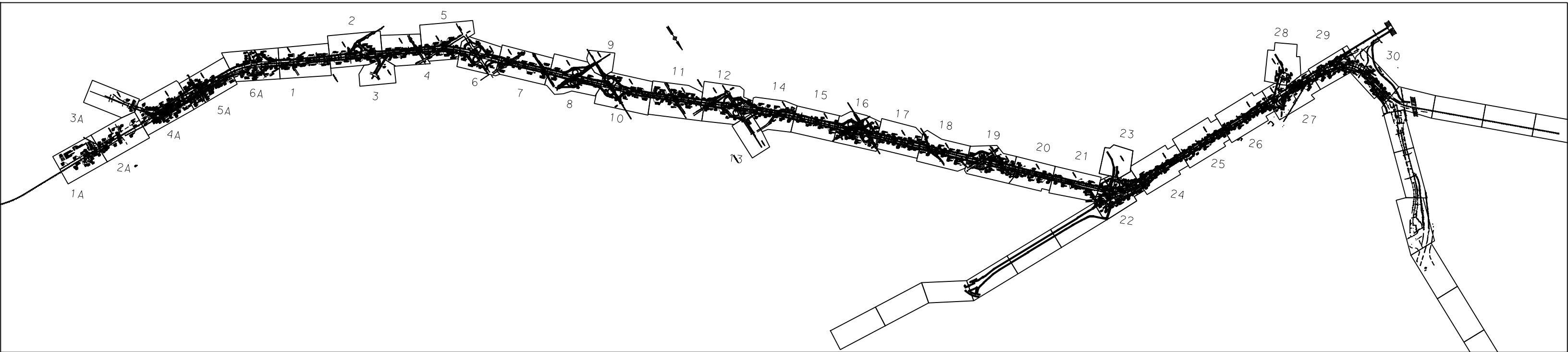
Federal Emergency Management Agency

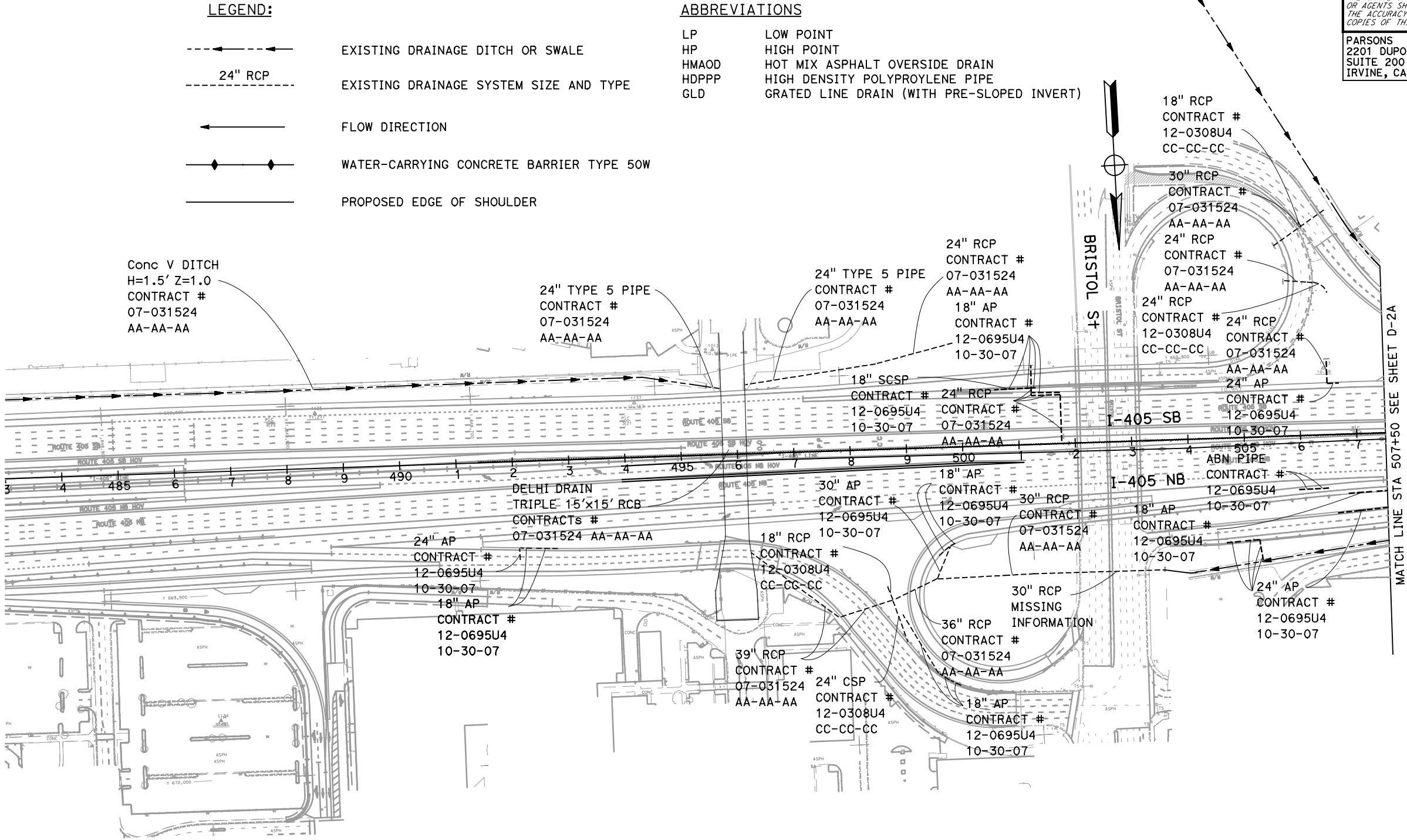
FEDERAL STORM CHANNEL

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ATTACHMENT 1
DRAINAGE MAPS
D-1A TO D-6A
&
D-1 TO D-30





ABBREVIATIONS

LP

LOW POINT

HP

HIGH POINT

HMAOD

HOT MIX ASPHALT OVERSIDE DRAIN


HDPPP

HIGH DENSITY POLYPROYLENE PIPE

GLD

GRADED LINE DRAIN (WITH PRE-SLOPED INVERT)

EXISTING DRAINAGE PLAN
D-1A
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR			CALCULATED- DESIGNED BY	REVISED BY		
				CHECKED BY	DATE REVISED		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22, 405	R0.7/R2.9 20.4/22.3		

05/18/09
REGISTERED CIVIL ENGINEER DATE

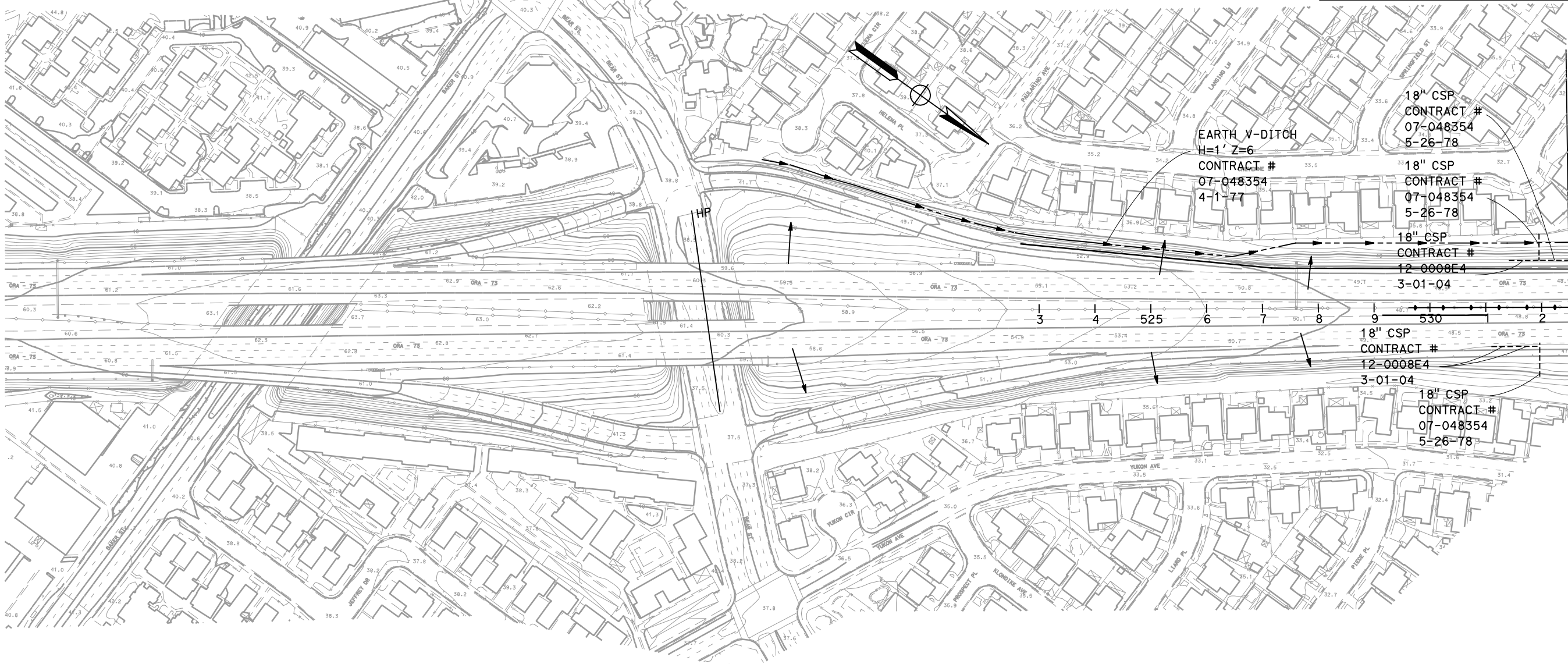
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER
No. _____
Exp. _____
CIVIL
STATE OF CALIFORNIA



MATCH LINE
STA 532+50
SEE SHEET D-4A

EXISTING DRAINAGE PLAN
D-3A
SCALE 1"=100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22, 405	R0.7/R2.9 20.4/22.3		

05/18/09

REGISTERED CIVIL ENGINEER

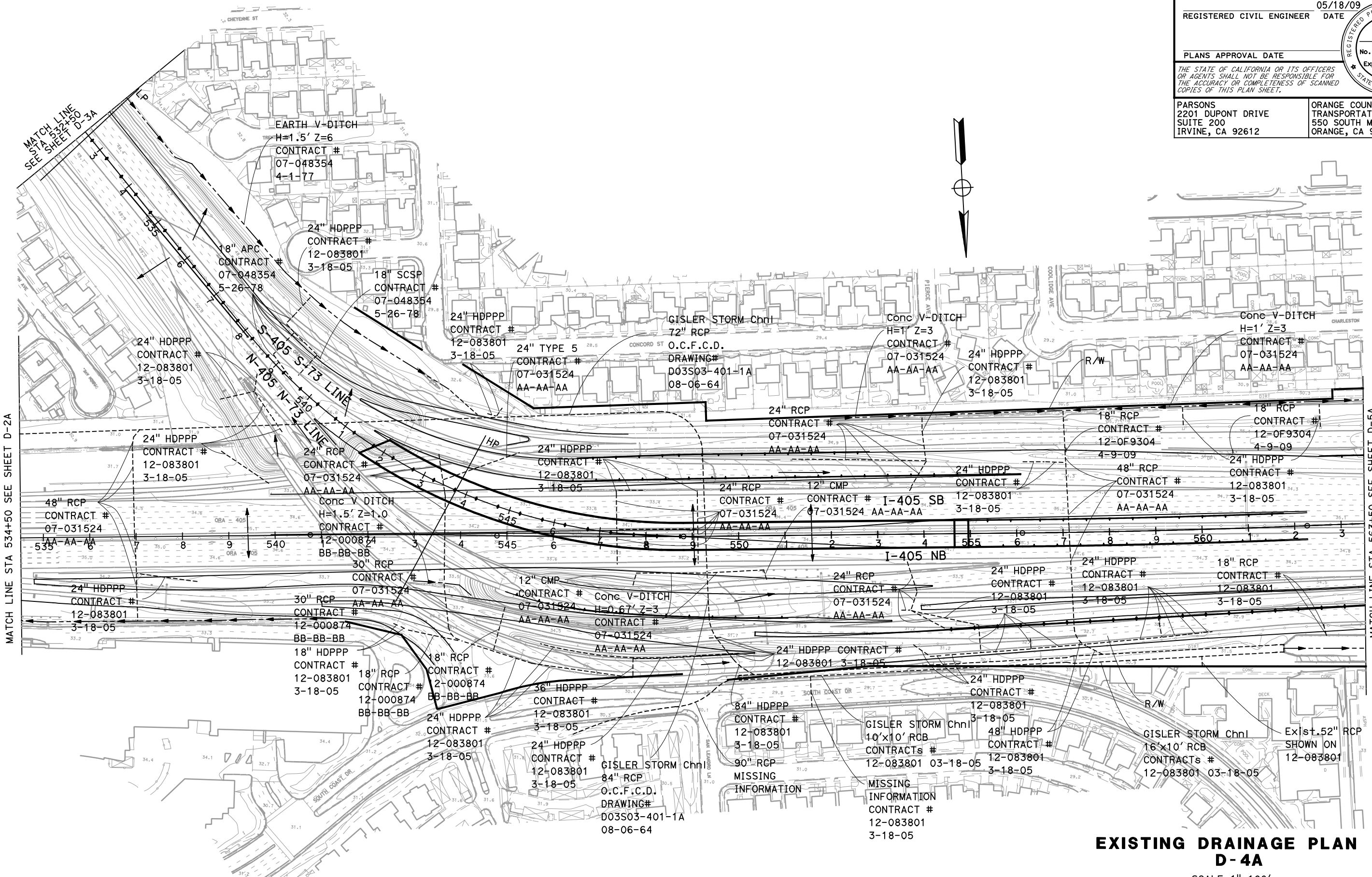
DATE

PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-4A
SCALE 1"=100'

X

RELATIVE BORDER SCALE
IS IN INCHES

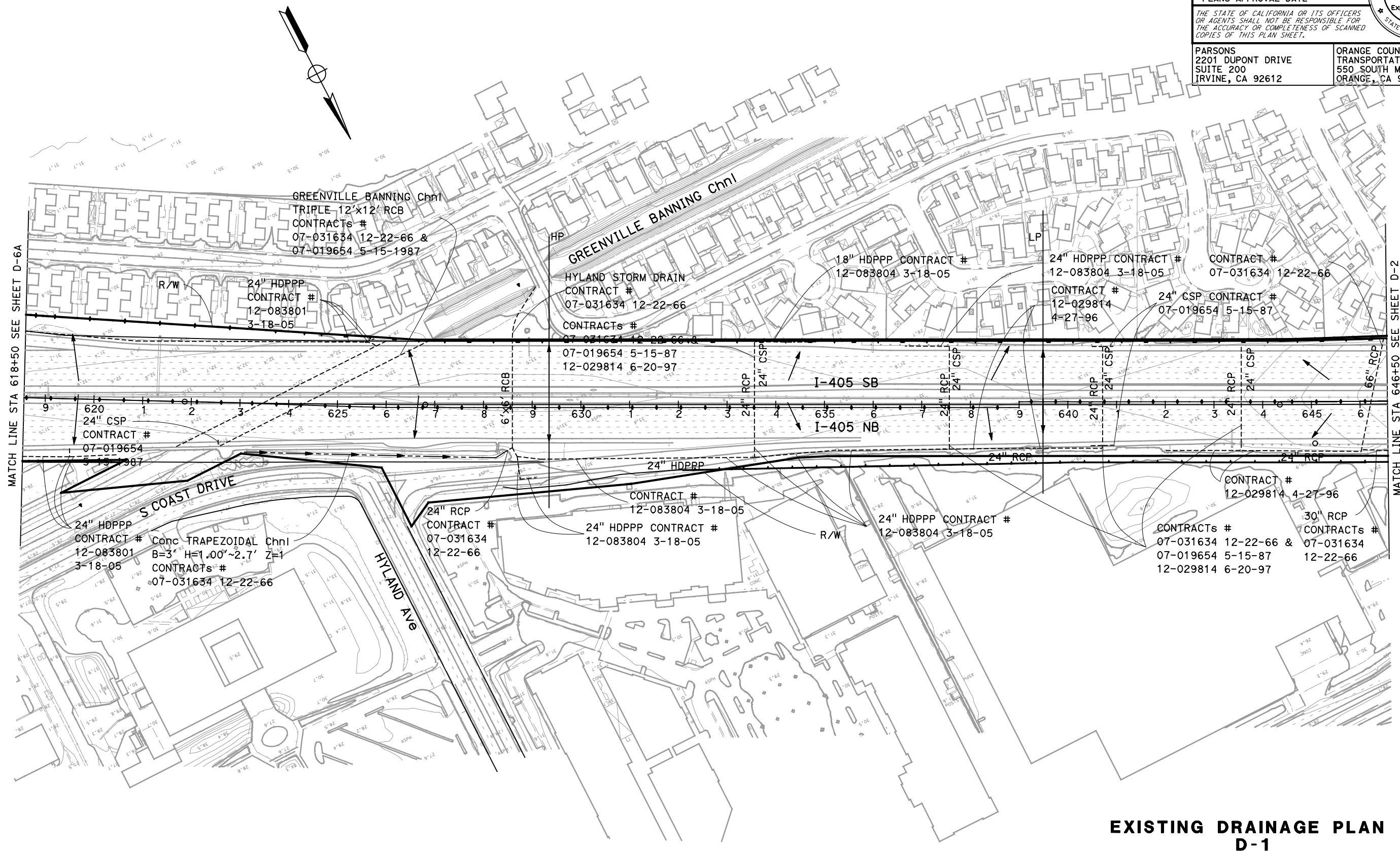
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DGN FILE => Drainage Exist.dgn

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EA 071621

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:15:05 PM



Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

12

Oran

22, 405

R0.7/R2.9
20.4/22.3

05/18/09

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

No.

Exp.

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STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

The figure is a detailed drainage plan for an area near the Santa Ana River and Ellis Avenue. It shows the layout of various drainage structures including ditches, culverts, and bridges. Key features include:

- Santa Ana River**: A large body of water on the left side of the plan.
- Ellis Ave**: A road running horizontally across the middle of the plan.
- New Euclide Ave On-Ramp Bridge**: A bridge crossing the Santa Ana River.
- Drainage Structures**: Various structures are labeled with their dimensions and contract numbers, such as "Conc TRAPEZOIDAL Chnl B=2' H=1.0' Z=1.5 CONTRACTS # 07-031634 12-22-66".
- Stationing**: The plan includes stationing along the main road, with markers for stations 646+50, 650, 655, 660, 665, 670, and 675.
- Match Lines**: The plan is bounded by match lines on the left and right, indicating it is part of a larger set of drawings.

EXISTING DRAINAGE PLAN
D-2
SCALE 1"=100'

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

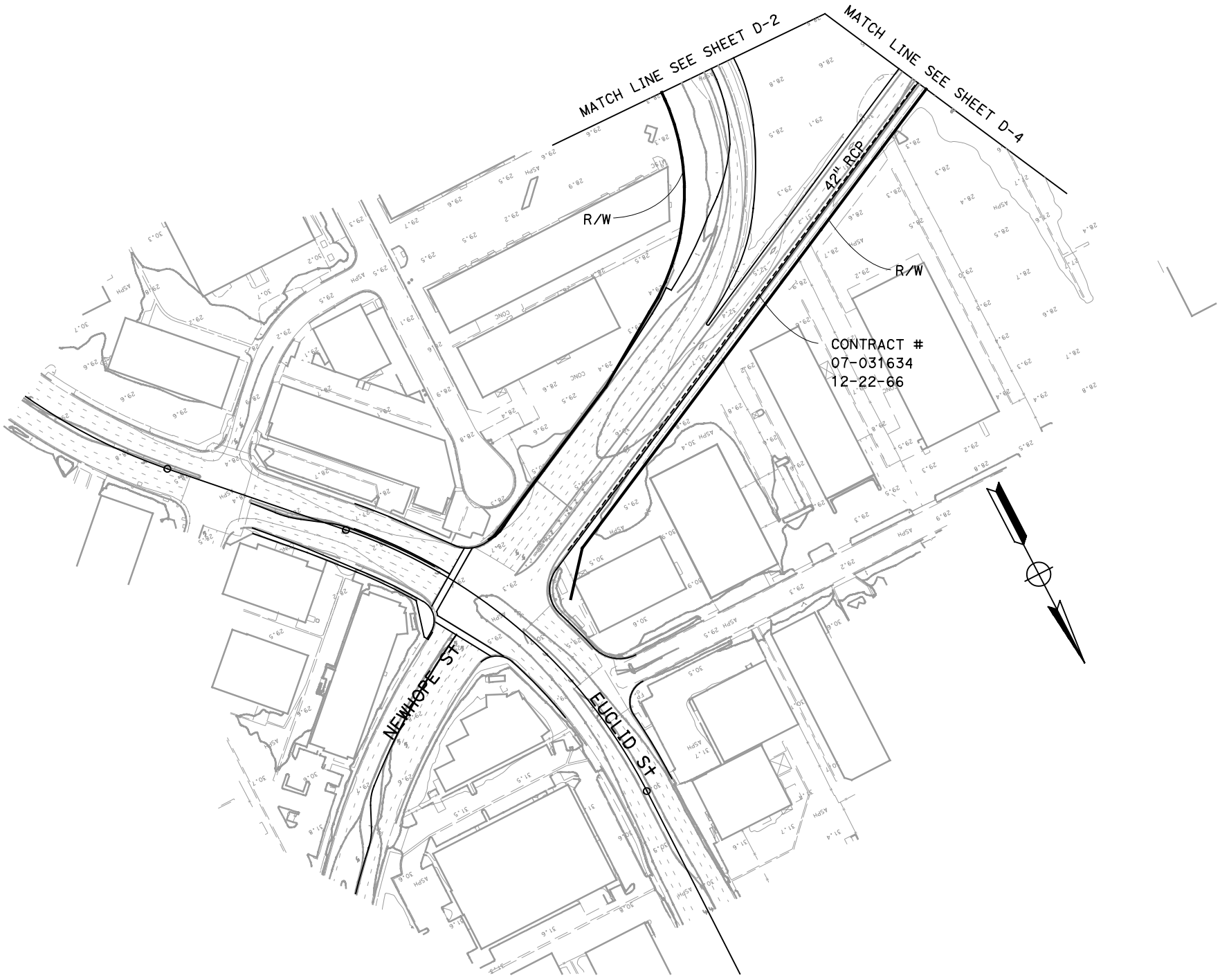
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DGN FILE => Drainage_Exist.dgn

CU 12235

EA 071621

LAST REVISION
DATE PLOTTED => 3/15/2011
05-18-09
TIME PLOTTED => 3:11:57 PM

x	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	REVISED BY	
	Caltrans®					
x				CHECKED BY	DATE REVISED	
x						
x						
x						



EXISTING DRAINAGE PLAN
D-3
SCALE 1"=100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22, 405	R0.7/R2.9 20.4/22.3		

05/18/09
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER
No. _____
Exp. _____
CIVIL
STATE OF CALIFORNIA

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3


USERNAME => p0032249
DGN FILE => Drainage_Exist.dgn

CU 12235

EA 071621

LAST REVISION | DATE PLOTTED => 2/7/2011
05-18-09 TIME PLOTTED => 2:15:13 PM

STATE OF CALIFORNIA



DEPARTMENT OF TRANSPORTATION

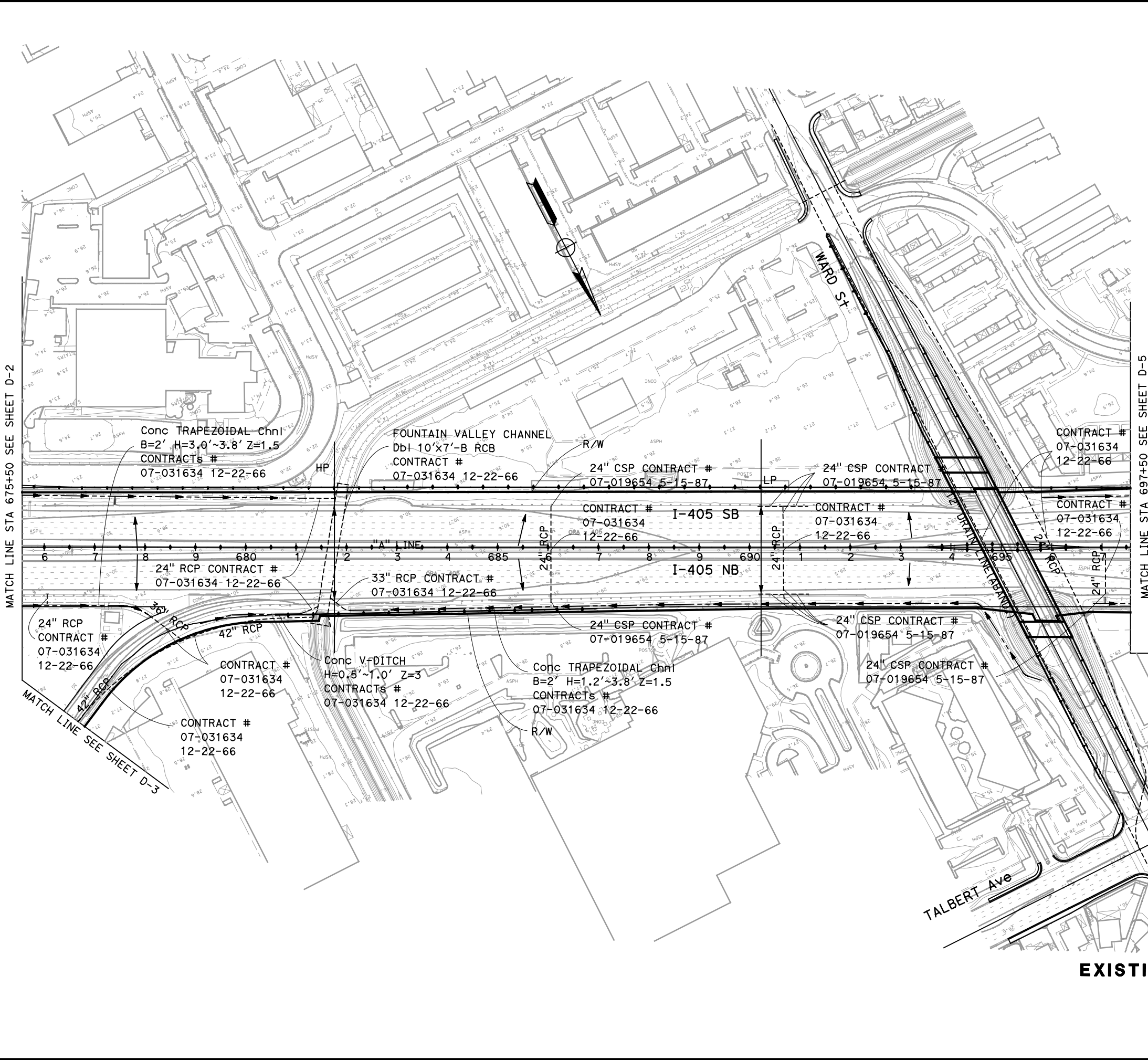
CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22, 405	R0.7/R2.9 20.4/22.3		

05/18/09

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

EXISTING DRAINAGE PLAN
D-4
SCALE 1"=100'

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES

0 1 2 3

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DGN FILE => Drainage_Exist.dgn


CU 12235

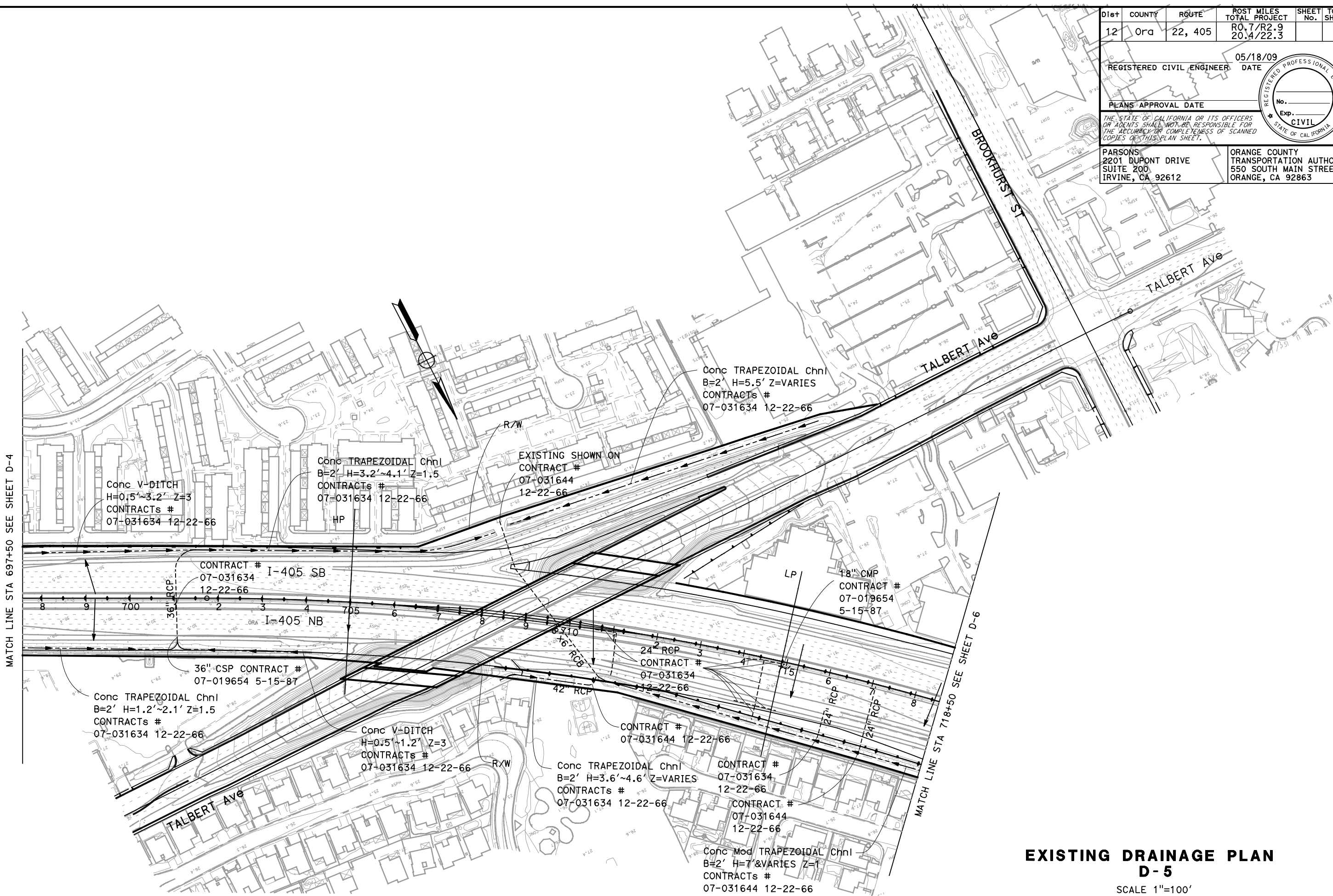
EA 071621

LAST REVISION DATE PLOTTED => 3/15/2011
05-18-09 TIME PLOTTED => 3:12:01 PM

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		
REGISTERED CIVIL ENGINEER			05/18/09		
DATE					
PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		



EXISTING DRAINAGE PLAN

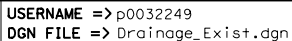
D-5

SCALE 1"=100'

X

Subaru®

RELATIVE BORDER SCALE
IS IN INCHES



EA 071621



MATCH LINE STA 740+50 SEE SHEET D-7

WATCH LINE STA 718+50 SEE SHEET D-5

DATE PLOTTED => 2/7/2011	LAST REVISION
TIME PLOTTED => 2:15:25 PM	05-18-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22, 405	R0.7/R2.9 20.4/22.3		

05/18/09

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

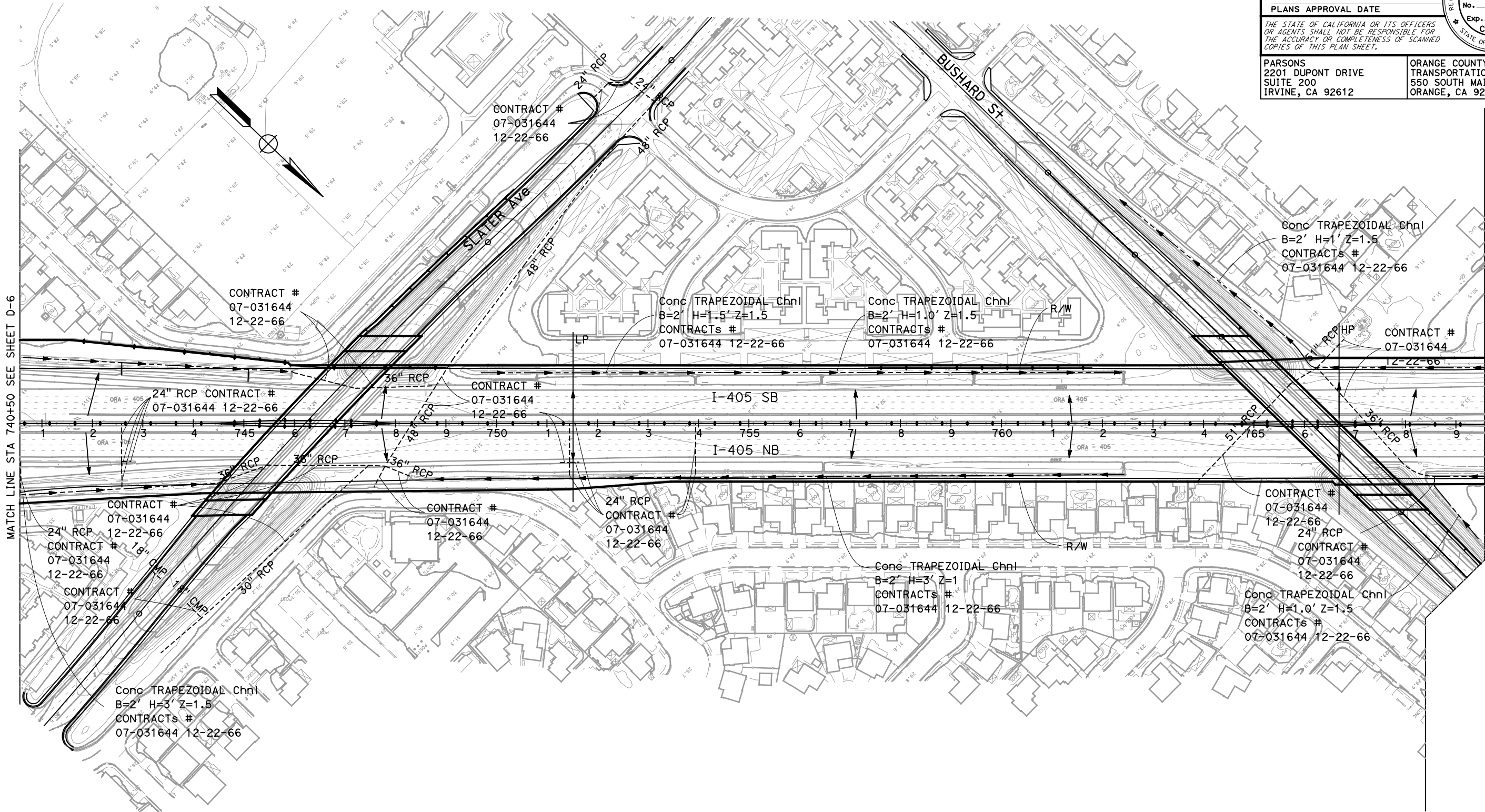
REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA



EXISTING DRAINAGE PLAN
D-7
SCALE 1"=100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

05/18/09
REGISTERED CIVIL ENGINEER DATE

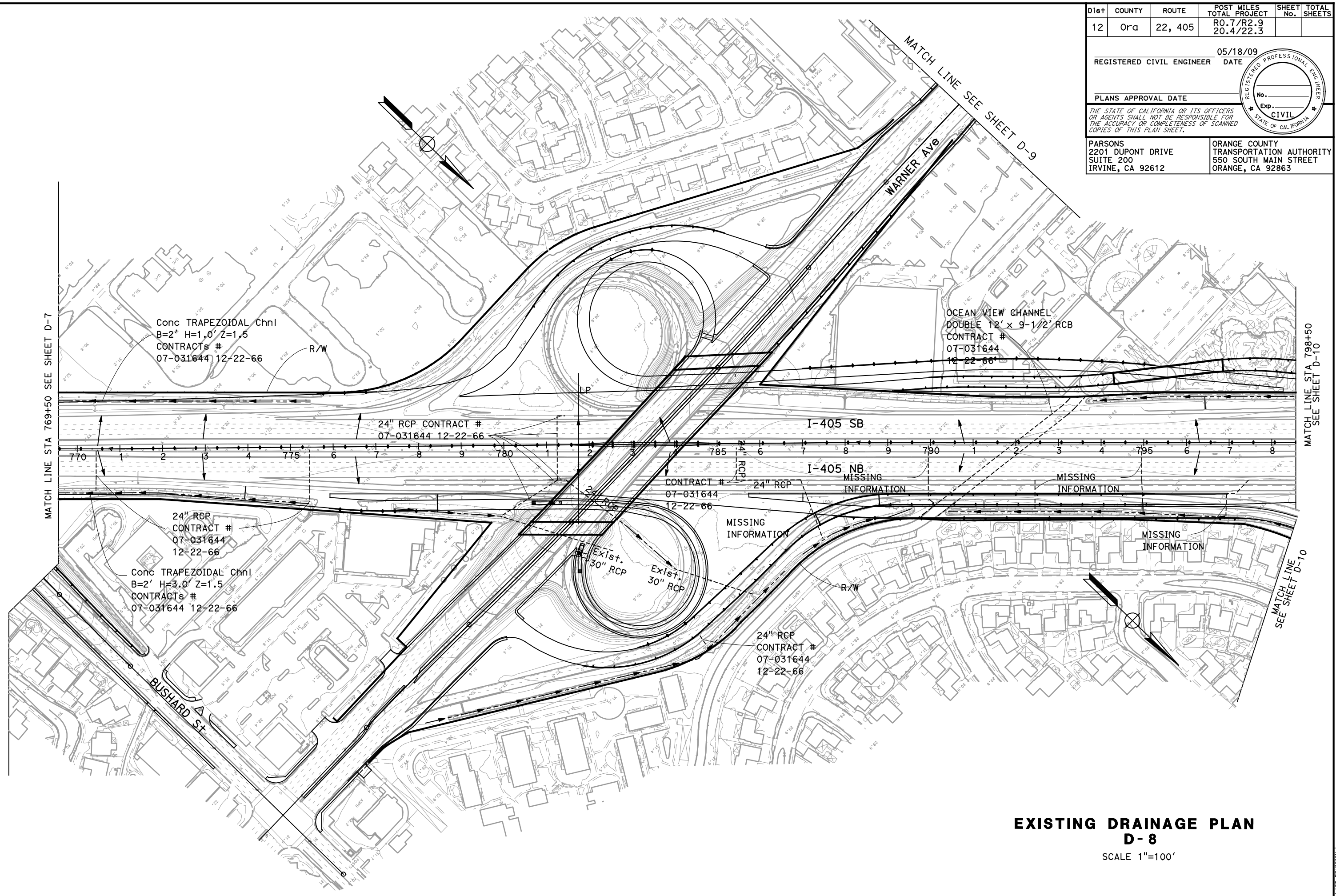


PLANS APPROVAL DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



MATCH LINE STA 798+50
SEE SHEET D-10

MATCH LINE
SEE SHEET D-10

EXISTING DRAINAGE PLAN D - 8

SCALE 1"=100'

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE
IS IN INCHES



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USERNAME => p0032249
DGN FILE => Drainage_Exist.dgn

```

CU 12235

EA 071621

LAST REVISION	DATE PLOTTED => 3/15/2011
05-18-09	TIME PLOTTED => 3:33:05 PM

[illegible]

Supra® 75



MATCH LINE SEE SHEET D-8

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

CHECKED BY

CALCULATED-DESIGNED BY

REVISOR

DATE

DATE

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12

Oran

22, 405

R0.7/R2.9
20.4/22.3

05/18/09

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

No.

Exp.

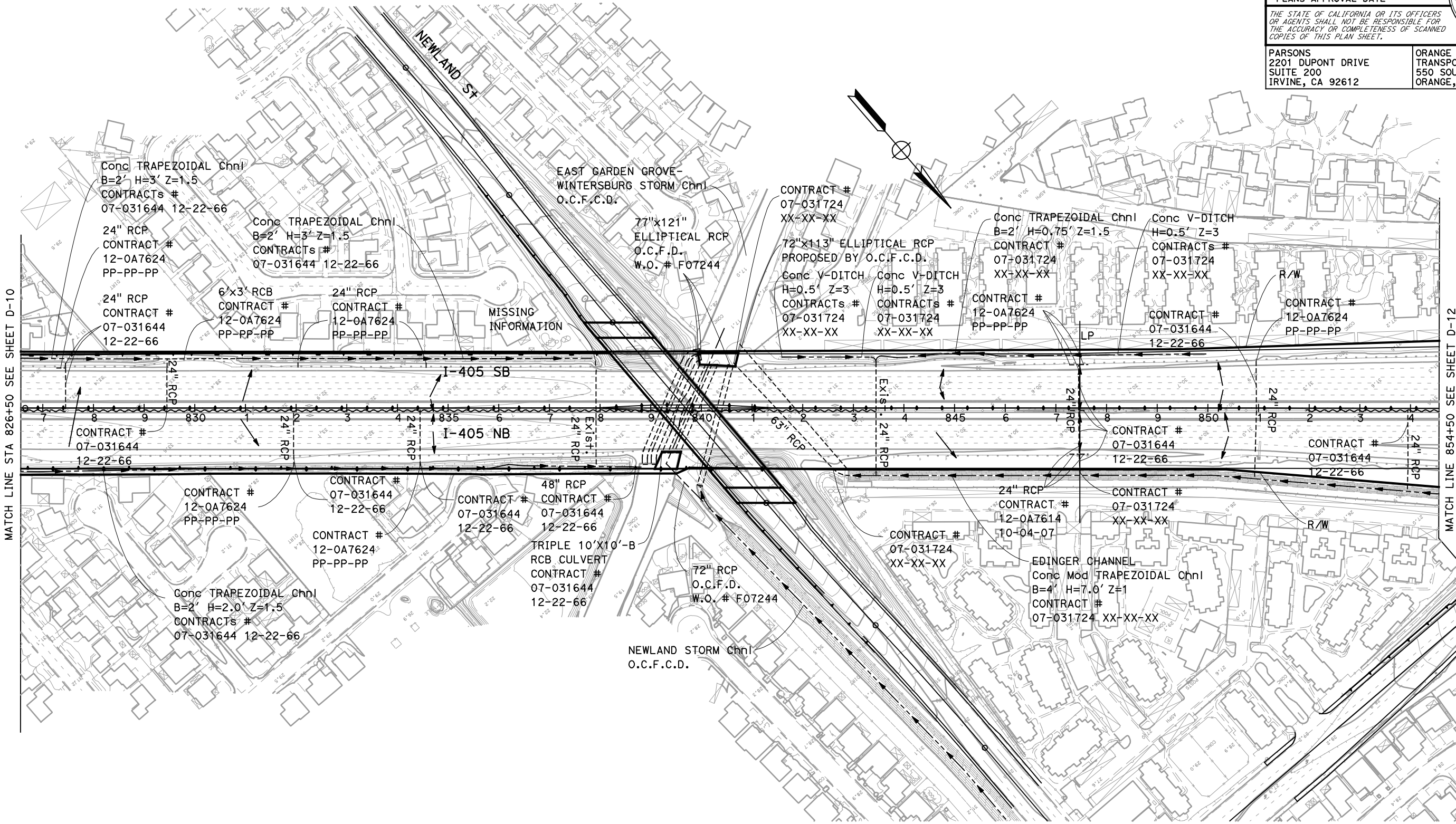
CIVIL

STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-11
SCALE 1"=100'

